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# Summary of Notifiable Diseases — United States, 2001

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention (CDC)
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#### Preface

The MMWR Summary of Notifiable Diseases, United States, 2001 contains, in tabular and graphic form, the official statistics for the reported occurrence of nationally notifiable diseases in the United States for 2001. These statistics are collected and compiled from reports sent by state health departments to the National Notifiable Diseases Surveillance System (NNDSS), which is operated by CDC in collaboration with the Council of State and Territorial Epidemiologists (CSTE).

The Summary is located on the Internet at http://www2.cdc.gov/mmwr/summary.html. This site also includes publications from past years.

Because the dates of onset or diagnosis for notifiable diseases are not always reported, these surveillance data are presented by the year and week they were reported to CDC by public health officials in state and territorial health departments. The data are finalized and published each year in the *Summary* for use by state and local health departments; schools of medicine and public health; communications media; local, state, and federal agencies; and other agencies or persons interested in following the trends of reportable diseases in the United States. This publication also documents which diseases are considered national priorities for notification and the annual number of reported cases of such diseases.

The Highlights section presents information on selected nationally notifiable diseases to provide a context in which to interpret surveillance and disease-trend data and to provide further information on the epidemiology and prevention of selected diseases.

Part 1 contains tables showing incidence data for each of the diseases considered nationally notifiable during 2001.\* The tables provide the number of cases of notifiable diseases reported to CDC for 2001, as well as the distribution of cases by month and geographic location and by patient's age, sex, race, and Hispanic ethnicity. The data are final totals reported as of June 21, 2002, unless otherwise noted. Nationally notifiable diseases that are reportable in <40 states also do not appear in these tables. Ehrlichiosis, human, other or unspecified agent, is not reported in any tables because data are incomplete. In all tables, leprosy is listed as Hansen disease, and tickborne typhus fever is listed as Rocky Mountain spotted fever (RMSF). In addition, syphilis (all stages) includes the following categories: latent; early latent; late latent; latent of unknown duration; neurosyphilis; late, with clinical manifestations other than neurosyphilis; syphilitic stillbirth, and congenital syphilis. Part 2 contains graphs and maps that depict summary data for many of the notifiable diseases described in tabular form in Part 1. Part 3 contains tables that list the number of cases of notifiable diseases reported to CDC since 1970. This section also includes a table enumerating deaths associated with specified notifiable diseases reported to the National Center for Health Statistics (NCHS), CDC, during 1996-1999.1

The Selected Reading section presents general and disease-specific references for notifiable infectious diseases. These references provide additional information on surveillance and epidemiologic issues, diagnostic issues, or disease control activities.

Revision), and 1999, we use comparability ratios provided by the National Center for Health

Statistics.

<sup>\*</sup>Because no cases of paralytic poliomyelitis, western equine encephalitis, or yellow fever were reported in the United States during 2001, these diseases do not appear in the tables in Part 1. In 1999, mortality data began to be coded according to the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. To bridge the mortality data for the period 1996–1998 (deaths coded using the International Classification of Diseases, Ninth

#### Background

The infectious diseases designated as notifiable at the national level during 2001 are listed in the following table. A notifiable disease is one for which regular, frequent, and timely information regarding individual cases is considered necessary for the prevention and control of the disease. This section briefly summarizes the history of the reporting of nationally notifiable diseases in the United States.

In 1878, Congress authorized the U.S. Marine Hospital Service (the forerunner of the Public Health Service [PHS]) to collect morbidity reports regarding cholera, smallpox, plague, and yellow fever from U.S. consuls overseas. The intention was to use this information to institute quarantine measures to prevent the introduction and spread of these diseases into the United States. In 1879, a specific Congressional appropriation was made for the collection and publication of reports of these notifiable diseases. Congress expanded the authority for weekly reporting and publication of these reports in 1893 to include data from states and municipal authorities. To increase the uniformity of the data, Congress enacted a law in 1902 directing the Surgeon General to provide forms for the collection and compilation of data and for the publication of reports at the national level. In 1912, state and territorial health authorities - in conjunction with PHS — recommended immediate telegraphic reporting of five infectious diseases and the monthly reporting, by letter, of 10 additional diseases. The first annual summary of The Notifiable Diseases in 1912 included reports of 10 diseases from 19 states, the District of Columbia, and Hawaii. By 1928, all states, the District of Columbia, Hawaii, and Puerto Rico were participating in national reporting of 29 specified diseases. At their annual meeting in 1950, state and territorial health officers authorized the Council of State and Territorial Epidemiologists (CSTE) to determine which diseases should be reported to PHS. In 1961, CDC assumed responsibility for the collection and publication of data concerning nationally notifiable diseases.

The list of nationally notifiable diseases is revised periodically. For example, a disease might be added to the list as a new pathogen emerges, or a disease might be deleted as its incidence declines. Public health officials at state health departments and CDC continue to collaborate in determining which diseases should be nationally notifiable. CSTE, with input from CDC, makes recommendations annually for additions and deletions. Although disease reporting is mandated by legislation or regulation at the state and local levels, state reporting to CDC is voluntary. Thus, the list of diseases considered notifiable varies slightly by state. All states generally report the internationally quarantinable diseases (i.e., cholera, plague, and yellow fever) in compliance with

the World Health Organization's International Health Regulations.

# Infectious Diseases Designated as Notifiable at the National Level During 2001

Acquired immunodeficiency	EHEC, not serogrouped	Q fever
syndrome (AIDS)	Gonorrhea	Rabies, animal
Anthrax	Haemophilus influenzae,	Rabies, human
Botulism	invasive disease	Rocky Mountain spotted
Brucellosis	Hansen disease (leprosy)	fever
Chancroid	Hantavirus pulmonary	Rubella
Chlamydia trachomatis,	syndrome	Rubella, congenital syndrome
genital infection	Hemolytic uremic syndrome,	Salmonellosis
Cholera	postdiarrheal	Shigellosis
Coccidioidomycosis	Hepatitis A, acute	Streptococcal disease,
Cryptosporidiosis	Hepatitis B, acute	invasive, group A
Cyclosporiasis	Hepatitis B, perinatal	Streptococcal toxic-shock
Diphtheria	Hepatitis C; non-A, non-B	syndrome
Ehrlichiosis, human granulocytic	Human immunodeficiency virus (HIV) infection, adult	Streptococcus pneumoniae, invasive, drug-resistant
Ehrlichiosis, human monocytic	HIV infection, pediatric (<13 yrs)	Streptococcus pneumoniae, invasive, <5 yrs
Ehrlichiosis, human, other	Legionellosis	Syphilis
or unspecified agent	Listeriosis	Syphilis, congenital
Encephalitis,	Lyme disease	Tetanus
California serogroup viral	Malaria	Toxic-shock syndrome
Encephalitis, eastern equine	Measles	Trichinosis
Encephalitis, St. Louis	Meningococcal disease	Tuberculosis
Encephalitis, western equine	Mumps	Tularemia
Escherichia coli,	Pertussis	Typhoid fever
enterohemorrhagic (EHEC),	Plague	Varicella (chickenpox)*
O157:H7	Poliomyelitis, paralytic	Varicella deaths
EHEC, serogroup non-O157	Psittacosis	Yellow fever

<sup>\*</sup> Although varicella (chickenpox) is not a nationally notifiable disease, the Council of State and Territorial Epidemiologists recommends reporting cases of this disease to CDC.

#### **Data Sources**

Provisional data concerning the reported occurrence of notifiable diseases are published weekly in the *MMWR*. After each reporting year, staff in state health departments finalize reports of cases for that year with local or county health departments and reconcile the data with reports previously sent to CDC throughout the year. These data are compiled in final form in the *Summary*.

Notifiable disease reports are the authoritative and archival counts of cases. They must be approved by the appropriate epidemiologist from each submitting state or territory before being published in the *Summary*. Although useful for detailed epidemiologic analyses, data published in *CDC Surveillance Summaries* or other surveillance reports produced by CDC programs might not agree exactly with data reported in the annual summary because of differences in the timing of reports, the source of the data, or the case definitions.

Data in the *Summary* were derived primarily from reports transmitted to the Division of Public Health Surveillance and Informatics, Epidemiology Program Office, CDC, from health departments in the 50 states, five territories, New York City, and the District of Columbia through the National Electronic Telecommunications System for Surveillance (NETSS). More information regarding NETSS and notifiable diseases, including case definitions for these conditions, is available on the Internet at http://www.cdc.gov/epo/dphsi/phs.htm. Policies for reporting notifiable disease cases can vary by disease or reporting jurisdiction, depending on case status classification (i.e., confirmed, probable, or suspected).

Final data for selected diseases (presented in Parts 1, 2, and 3) are from the surveillance records of the CDC programs listed below. Requests for further information regarding these data should be directed to the appropriate program.

#### National Center for Health Statistics (NCHS)

Office of Vital and Health Statistics Systems (deaths from selected notifiable diseases).

#### National Center for Infectious Diseases (NCID)

- Division of Bacterial and Mycotic Diseases (toxic-shock syndrome; streptococcal disease, invasive, group A; streptococcal toxic-shock syndrome; laboratory data regarding botulism, Escherichia coli, enterohemorrhagic O157:H7, salmonellosis, and shigellosis).
- Division of Vector-Borne Infectious Diseases (laboratory data regarding arboviral encephalitis).
- Division of Viral and Rickettsial Diseases (animal rabies, hantavirus pulmonary syndrome).

#### National Center for HIV, STD, and TB Prevention (NCHSTP)

- Division of HIV/AIDS Prevention Surveillance and Epidemiology (acquired immunodeficiency syndrome [AIDS]).
- Division of Sexually Transmitted Diseases Prevention (chancroid, chlamydia, gonorrhea, syphilis).
- Division of Tuberculosis Elimination (tuberculosis).

#### National Immunization Program (NIP)

Epidemiology and Surveillance Division (poliomyelitis).

Disease totals for the United States, unless otherwise stated, do not include data for American Samoa, Guam, Puerto Rico, the U.S. Virgin Islands, or the Commonwealth of the Northern Mariana Islands.

Population estimates for the states are from the April 1, 2000, population estimates from the Population Division, U.S. Bureau of the Census. Population numbers for territories are 2000 estimates from the U.S. Bureau of the Census, International Data Base Data Access Display Mode. More information regarding census estimates is available at <a href="http://eire.census.gov/popest/data/states/tables/ST-EST2002-01.php">http://eire.census.gov/popest/data/states/tables/ST-EST2002-01.php</a> and <a href="http://www.census.gov/ipc/www/idbprint.html">http://www.census.gov/ipc/www/idbprint.html</a>. The choice of population denominators for incidence rates reported in the MMWR is based on 1) the consistency in the incidence rates reported by various CDC programs, and 2) the availability of census population data at the time of preparation for MMWR publications. Rates in the Summary are presented as incidence rates per 100,000 population, based on data for the U.S. total-resident population. However, population data from states in which diseases were not notifiable or disease data were not available were excluded from rate calculations.

#### **Interpreting Data**

Incidence data in the *Summary* are presented by the date of report to CDC as determined by the MMWR week and year assigned by the state or territorial health department. As a result, annual incidence data in the *Summary* represent cases with onset during the MMWR year assigned to the case, or during previous years. In addition, data in the *Summary* are reported by the state in which the patient resides at the time of diagnosis. For many of the nationally notifiable infectious diseases, surveillance data are independently reported to EPO and other CDC programs. Thus, surveillance data reported by other CDC programs may vary from data reported in the *Summary* because of differences in 1) the date used to aggregate data (e.g., date of report, date of disease occurrence), 2) the timing of reports, 3) the source of the data, 4) surveillance case definitions, and 5) policies regarding case jurisdiction (i.e., which state should report the case to CDC).

The data reported in the *Summary* are useful for analyzing disease trends and determining relative disease burdens. However, these data must be interpreted in light of reporting practices. Some diseases that cause severe clinical illness (e.g., plague and rabies) are most likely reported accurately if they were diagnosed by a clinician. However, persons who have diseases that are clinically mild and infrequently associated with serious consequences (e.g., salmonellosis) might not seek medical care from a health-care provider. Even if these less severe diseases are diagnosed, they are less likely to be reported.

The degree of completeness of data reporting also is influenced by the diagnostic facilities available; the control measures in effect; public awareness of a specific disease; and interests, resources, and priorities of state and local officials responsible for disease control and public health surveillance. Finally, factors such as changes in the case definitions for public health surveillance, introduction of new diagnostic tests, or discovery of new disease entities can cause changes in disease reporting that are independent of the true incidence of disease.

Public health surveillance data are published for selected racial and ethnic population groups because these variables can be risk markers for certain notifiable diseases. Race and ethnicity data can also be used to highlight populations for focused prevention efforts. However, caution must be used when drawing conclusions from reported race and ethnicity data. Certain racial/ethnic population groups have differential patterns of access to health care, potentially resulting in data that are not representative of disease incidence in these populations. Surveillance data reported to NNDSS are either in individual case-specific form or summary form (aggregated data for a group of cases). Summary data often lack demographic information (e.g., race); therefore, the demographic-specific incidence rates presented in the *Summary* may be underestimated.

In addition, not all race and ethnicity data are collected uniformly for all diseases. For example, in NCHSTP, the Division of HIV/AIDS Prevention — Surveillance and Epidemiology and the Division of Sexually Transmitted Diseases Prevention collect race/ethnicity data using a single variable. A person's race/ethnicity is reported as American Indian/Alaska Native, Asian/Pacific Islander, black non-Hispanic, white non-Hispanic, or Hispanic. Additionally, although the recommended standard for classifying a person's race or ethnicity is based on self-reporting, this procedure might not always be followed.

#### **Highlights for 2001**

This section presents information on the public health importance of selected nationally notifiable diseases reported from the states to CDC, including a) domestic and some international disease outbreaks, b) active surveillance findings, c) changes in data reporting practices, d) the impact of prevention programs, e) the emergence of antimicrobial resistance, and f) changes in immunization policies. This information is intended to provide a context in which to interpret surveillance and disease-trend data and to provide further information on the epidemiology and prevention of selected diseases.

#### AIDS

Since the use of highly active antiretroviral therapy (HAART) in the United States became widespread in 1996, the number of persons diagnosed with acquired immunodeficiency syndrome (AIDS) has declined. The number of deaths among persons with AIDS has also declined substantially; as a result, the number of persons living with AIDS has increased (1). By December 2001, a total of 807,075 adults and 9,074 children had been reported with AIDS.

In 1996, sharp declines in AIDS incidence occurred for the first time; during 1998–1999, declines in AIDS incidence began to level, and essentially no change occurred from 1999 through 2000. Through December 2001, 462,653 adult and 5,257 pediatric AIDS cases resulted in death. Since 1996, the number of deaths among persons with AIDS declined sharply and continued to decline each year through 2000. The number of persons living with AIDS, approximately 362,827, was the highest ever reported; of these persons, 78% were men and 61% were black or Hispanic. Of the 282,250 adult and adolescent men with AIDS, 57% were men who have sex with men, 24% were injecting drug users, 9% were exposed through heterosexual contact, and 8% were both men who have sex with men and injecting drug users. Of the 76,696 adult and adolescent women with AIDS, 59% were exposed through heterosexual contact and 38% through injecting drug use (2).

To provide better data for prevention of human immunodeficiency virus (HIV) infection (the virus that causes AIDS), CDC and CSTE recommend that national surveillance include the monitoring of both HIV infection and AIDS (3,4). CDC supports several supplemental surveillance projects that collect data on barriers to preventing AIDS cases and deaths of persons with AIDS, including access to HIV testing and treatment in accordance with current public health service guidelines.

- 1. CDC. Update: AIDS-United States, 2000. MMWR 2002;51;592-5.
- CDC. HIV/AIDS Surveillance Report, 2002. Atlanta: Centers for Disease Control and Prevention. Vol. 13, No. 2. Available at http://www.cdc.gov/hiv/stats/hasrlink.htm.
- CDC. Guidelines for national human immunodeficiency virus case surveillance, including monitoring for human immunodeficiency virus infection and acquired immunodeficiency syndrome. MMWR 1999;48(No. RR-13).
- Council of State and Territorial Epidemiologists. CSTE position statement ID-4: National HIV surveillance—addition to the National Public Health Surveillance System. Atlanta: Council of State and Territorial Epidemiologists, 1997.

#### Anthrax

In September and October 2001, in an unprecedented biological terrorism event, letters containing *Bacillus anthracis* spores were sent through the U.S. Postal Service to various addresses in several states. Eleven inhalational and 11 cutaneous (four suspected and seven confirmed) anthrax cases resulted. Five of the 11 inhalational infections were fatal. These bioterrorism-associated cases occurred among residents of seven states along the East Coast of the United States: Connecticut, one case; Florida, two cases; Maryland, three cases; New Jersey, five cases; New York City, eight cases (includes a case in a New Jersey resident exposed in New York City); Pennsylvania, one case; and Virginia, two cases. In addition to the 22 bioterrorism-associated cases, one naturally occurring case of cutaneous anthrax (associated with direct exposure to livestock that had died of anthrax) was reported from Texas in the summer of 2001. *B. anthracis* remains a Category A bioterrorism threat agent.

#### **Botulism**

Thirty-nine cases of foodborne botulism were reported in 2001 through NNDSS. An outbreak of foodborne botulism in Texas involving nine culture-confirmed and seven clinically diagnosed cases was caused by commercially produced chili sauce and likely occurred because of time and temperature abuse of the food at a retail salvage store. The highest annual frequency of infant botulism, 97 cases, was reported in 2001. The number of wound botulism cases reported in 2001 was 19. Botulism surveillance conducted by the Foodborne and Diarrheal Diseases Branch, NCID, indicated 33 foodborne cases, 112 cases of infant botulism, and 23 cases of wound botulism. *Clostridium botulinum* toxin is a Category A bioterrorism threat agent.

#### **Brucellosis**

In 2001, the control program for brucellosis among cattle in the United States has nearly eliminated *Brucella abortus* infection from U.S. herds. Therefore, at present, the risk of contracting brucellosis either from occupational exposure to livestock in the United States or from domestically produced food products is minimal. However, a risk remains for infection with both *B. abortus* and *B. melitensis* from consumption of unpasteurized goat and cow milk products, in particular those produced outside the United States. Most cases in the United States are now seen in international travelers or recent immigrants. Hunters exposed to infected wildlife and laboratory personnel working with *Brucella* species also have an elevated risk for infection. *B. melitensis* and *B. suis* are considered Category B bioterrorism threat agents.

#### Chancroid

During 2001, a total of 38 cases of chancroid were reported (rate: 0.01 cases/100,000 population), representing a 51% decline from 2000 and a continuing decline since 1987 (1). However, chancroid is difficult to culture and could be substantially underdiagnosed. Several studies that used DNA amplification tests (which are not commercially available) have identified this infection in cities where it was previously undetected (2).

- CDC. Sexually transmitted disease surveillance 2001. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, 2002.
- Mertz KJ, Trees D, Levine WC, et al. Etiology of genital ulcers and prevalence of human immunodeficiency virus coinfection in 10 US cities. The Genital Ulcer Disease Surveillance Group. J Infect Dis 1998;178:1795–8.

#### Chlamydia trachomatis, Genital Infection

During 2001, a total of 783,242 cases of genital chlamydial infection were reported (rate: 278.32/100,000). This rate was the highest since voluntary case reporting began in the mid-1980s and the highest since genital chlamydial infection became a nationally notifiable disease in 1995 (1). This increase could be caused in part by the continued expansion of chlamydia screening programs and increased use of more sensitive diagnostic tests for this condition.

 CDC. Sexually transmitted disease surveillance 2001. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, 2002.

#### Cholera

During 1995–2000, 61 laboratory-confirmed cases of cholera, all caused by *Vibrio cholerae* O1, were reported to CDC. Thirty-five (57%) patients were hospitalized, and one died. Thirty-seven (61%) infections were acquired outside the United States, whereas six (10%) were acquired through consumption of contaminated seafood harvested in Gulf Coast waters (1). Only three laboratory-confirmed cases of cholera were reported to CDC in 2001. All were caused by *V. cholerae* O1 and were acquired outside the United States. All three isolates were resistant to trimethoprim-sulfamethoxazole, sulfisoxazole, streptomycin, and furazolidone. Thus, foreign travel continues to account for most cholera cases in the United States, and antimicrobial resistance is common among *V. cholerae* O1 strains isolated from ill travelers. Production and sale of the only licensed cholera vaccine in the United States ceased in 2001.

 Steinberg EB, Greene KD, Bopp CA, Cameron DN, Wells JG, Mintz ED. Cholera in the United States, 1995–2000: trends at the end of the millennium. J Infect Dis 2001;184:799–802.

#### Coccidioidomycosis

In recent years, Arizona has experienced a significant increase in the incidence rates of coccidioidomycosis, from 18/100,000 in 1997 to 42/100,000 in 2001. This increase is likely related to demographic and climactic changes. Physicians should maintain a high suspicion for acute coccidioidomycosis, especially for persons with a flu-like illness who live in or have visited endemic-disease areas.

#### Diphtheria

During 2001, two probable diphtheria cases were reported to CDC. Both patients had membranous pharyngitis. The first was a man aged 59 years from Montana. A specimen for culture was not obtained from this patient. The second patient was a woman aged 19 years from Michigan. Although a throat swab culture from this patient did not yield *Corynebacterium diphtheriae*, a weakly positive *Taq*man polymerase chain reaction test result was obtained from the membranous tissue. Neither patient had a history of recent travel or had contact with international or local visitors. Both patients survived.

#### **Encephalitis, Arboviral**

In 2001, epizootic and epidemic West Nile virus (WNV) activity continued in the United States, and geographic limits of reported viral activity extended to western Arkansas and southern Florida (1). WNV-infected birds, mosquitoes, or horses were detected in 27 states and the District of Columbia; 16 of these states had not previously reported WNV activity. In Florida, dead infected birds were collected as late as

December 26, suggesting the potential for winter transmission in southern regions. An unprecedented equine WNV epizootic occurred in Florida and Georgia and resulted in 511 reported equine cases. Culex (Cx. pipiens, Cx. restuans, and Cx. salinarius) mosquitoes were again the most commonly identified mosquito vectors of WNV. WNV was also detected in several human-feeding mosquito species (Cx. nigripalpus, Ochlerotatus sollicitans, Oc. tainiorhynchus, and Coquillitidia perturbans), raising concerns about increased human risk in areas where these species are common (2,3). A total of 66 human cases of WNV disease were reported from 39 counties in 10 states (64 patients with WNV meningoencephalitis and two persons with uncomplicated WNV fever).

In 2001, 79 human cases of St. Louis encephalitis (SLE) were reported from Arizona (n = 1), Arkansas (n = 2), Louisiana, (n = 71), and Texas (n = 5). Epidemic SLE activity in Louisiana was centered in the city of Monroe (4).

- 1. CDC. West Nile virus activity, United States-2001. MMWR 2002;51:497-501.
- Sardelis MR, Turrell MJ, Dohm DJ, et al. Vector competence of selected North American Culex and Coquillettidia mosquitoes for West Nile virus. Emerg Infect Dis 2001;7:1018–22.
- 3. Turrell MJ, O'Guinn ML, Dohm JD, et al. Vector competence of North American mosquitoes (Diptera: Culicidae) for West Nile virus. J Med Entomol 2001;38:130–4.
- Louisiana Office of Public Health. Four types of encephalitis found in Louisiana in 2001. Louisiana Morbidity Report 2001;12(5),2–3. Available at http://oph.dhh.state.la.us/infectiousdisease/docs/ Lmr/sepoct01.pdf

#### Escherichia coli, enterohemorrhagic

In 2001, the National Notifiable Diseases Surveillance System expanded surveillance of *Escherichia coli* O157:H7 to include other serogroups of Shiga toxin-producing *E. coli* under the inclusive name enterohemorrhagic *E. coli* (EHEC). Surveillance categories for EHEC include 1) EHEC O157:H7; 2) EHEC, serogroup non-O157; and 3) EHEC, not serogrouped.

During 2001, 3,485 cases of EHEC infection were reported from 50 states, Guam and Puerto Rico. These cases included 3,294 due to EHEC O157:H7, 171 due to EHEC, serogroup non-O157, and 20 due to EHEC that were not serogrouped. Approximately 50% of stools are tested for *E. coli* O157, and few stool specimens are tested in a way that would identify other Shiga toxin-producing *E. coli* (1). The number of cases reported for EHEC should be interpreted as an underestimate in a maturing surveillance system.

Healthy cattle are the main animal reservoir for *E. coli* O157:H7 and other Shiga toxin-producing *E. coli*, and they harbor the organism as part of the bowel flora. Most reported outbreaks are caused by contaminated food or water. However, direct transmission from animals and their environment to humans in settings such as petting zoos, open farms, and animal exhibits represents a growing public health concern (2).

- Van Gilder T, Christensen D, Wallace D, et al. Variations in stool handling and culturing practices among clinical microbiology laboratories within the Foodborne Diseases Active Surveillance network (FoodNet): Do we need practice guidelines? [Abstract]. Presented at the 99th General Meeting of the American Society for Microbiology. Chicago, 1999. Available at: http:// www.cdc.gov/foodnet/pub/asm/1999/van\_gilder.htm
- Crump JA, Sulka AC, Langer AJ, et al. An outbreak of Escherichia coli O157:H7 infections among visitors to a dairy farm. N Engl J Med 2002;347:555–60.

#### Gonorrhea

During 2001, a total of 361,705 cases of gonorrhea were reported (rate: 128.53/100,000). The 2001 rate was similar to rates for 2000 (129.04/100,000), 1999 (132.32/100,000), and 1998 (131.89/100,000) (1) and has remained stable among men and women. Nevertheless, increases have been observed in some areas among men who have sex with men (2). Decreased susceptibility to the fluoroquinolone antibiotics and azithromycin has been reported from some regions (3). In 2001, the prevalence of fluoroquinolone-resistant Neisseria gonorrhoeae infections increased in California. As a result, fluoroquinolones are no longer advised for treatment of gonorrhea in Hawaii or California or for infections that may have been acquired in those states (4).

- CDC. Sexually transmitted disease surveillance 2001. Atlanta: US Department of Health and Human Services, Public Health Service, CDC, 2002.
- Fox KK, del Rio C, Holmes KK, et al. Gonorrhea in the HIV era: a reversal in trends among men who have sex with men. Am J Public Health 2001;91:1–5.
- CDC. Fluoroquinolone-resistance in Neisseria gonorrhoeae, Hawaii, 1999, and decreased susceptibility to azithromycin in N. gonorrhoeae, Missouri, 1999. MMWR 2000;49:833–7.
- 4. CDC. Sexually transmitted diseases treatment guidelines 2002. MMWR 2002;51(No. RR-6).

#### Haemophilus influenzae, Invasive Disease

Since 1990, when *Haemophilus influenzae* type b (Hib) conjugate vaccines were licensed for use in infants beginning at age 2 months, Hib has become a rare cause of invasive disease (e.g., meningitis) among children aged <5 years in the United States (1). Surveillance information is used to monitor the effectiveness of immunization programs and vaccines and to assess progress toward disease elimination. To continue to assess progress toward the elimination of Hib invasive disease, accurate laboratory information is essential to correctly identify the serotype of the causative *H. influenzae* (Hi) isolate (2). Serotyping Hi by slide agglutination can sometimes be inaccurate, especially since it is not performed frequently in most laboratories. Recently, CDC reported discrepancies in Hi slide agglutination serotyping results obtained by state health department laboratories participating in active surveillance and those obtained by CDC. In this study, 28 (70%) of 40 Hi isolates that had been reported as Hib to CDC were actually identified at CDC as nontypeable Hi (2). Because of these discrepancies, CDC requests state health department laboratories to send all Hi invasive disease isolates from children aged <5 years to CDC for testing to reconfirm serotype.

- CDC. Progress toward elimination of Haemophilus influenzae type b disease among infants and children—United States, 1998–2000. MMWR 2002;51:234–7.
- CDC. Serotyping discrepancies in Haemophilus influenzae type b disease—United States, 1998– 1999. MMWR 2002:51:706–7.

#### **Hansen Disease**

A total of 81 Hansen disease cases were reported to CDC through the NNDSS database from 20 states, Puerto Rico and American Samoa in 2001; three states (California, Hawaii and New York) accounted for 74% of the total number of cases reported. In contrast, 110 Hansen disease cases were reported to the National Hansen Disease Program from 27 states and Puerto Rico in 2001; six states (Texas, New York, Louisiana, Washington, Florida and California) accounted for 71% of the total number of cases reported. These data suggest that the annual number of cases in the United States may not be declining and underscore the need for coordination between the multiple surveillance systems as well as the need to continue to identify and treat patients with Hansen disease.

#### Hantavirus Pulmonary Syndrome

During 2001, a total of 11 cases of hantavirus pulmonary syndrome (HPS) were confirmed in eight states through the Hantavirus Pulmonary Syndrome National Surveillance System and Registry. Three (27%) cases were fatal. This is the lowest number of annual cases reported since the disease was recognized in 1993. Previously, the average number of cases per year was 34 (range: 22–48). As of December 31, 2001, a total of 313 cases have been confirmed in 31 states, including 32 cases that were retrospectively identified back to 1959. Hantaviruses are rodent borne, and human infection most commonly occurs through inhalation of virus particles from infectious rodent droppings, urine, or saliva. Preventing exposure to rodent hosts remains the most effective way of preventing morbidity and mortality from HPS because treatment for the disease is largely supportive (1).

 CDC. Hantavirus pulmonary syndrome-United States: updated recommendations for risk reduction, MMWR 2002;51(No. RR-9):1-12.

#### Hemolytic Uremic Syndrome, Postdiarrheal

During 2001, the sixth year of national reporting, 28 states reported 202 cases of postdiarrheal hemolytic uremic syndrome (HUS). The median age of patients was 5 years (range: <1–79), and 66% were female. Illness was seasonal, with 43% of cases occurring from June through September. Although the number of reported cases in 2001 decreased compared with 2000 (249 cases), it was greater than in 1999 (181 cases); thus, a trend is not possible to determine. At least five states, the District of Columbia, and two territories did not list HUS as a notifiable disease in 2000, contributing to substantial underreporting.

Postdiarrheal HUS is a life-threatening illness characterized by hemolytic anemia, thrombocytopenia, and renal injury. In the United States, most cases are caused by infection with Escherichia coli O157:H7; some are caused by other Shiga toxin-producing E. coli (1,2).

- Banatvala N, Griffin PM, Greene KD, et al. The United States prospective hemolytic uremic syndrome study: microbiologic, serologic, clinical, and epidemiologic findings. J Infect Dis 2001;183:1063–70.
- CDC. Escherichia coli O111:H8 outbreak among teenage campers—Texas, 1999. MMWR 2000:49:321–4.

#### Hepatitis A

Hepatitis A vaccine is recommended for persons at increased risk of acquiring hepatitis A (e.g., illegal drug users, men who have sex with men [MSM]) and also for children in states and counties that have historically had consistently elevated rates of hepatitis A (1). After routine childhood vaccination was recommended, the overall hepatitis A rate has declined steadily, and in 2001 it was the lowest yet recorded (4.0/100,000). Because hepatitis A rates tend to vary from year to year and from region to region, continued monitoring of hepatitis A incidence is needed to determine whether this low rate is due to routine immunization or natural variability in infection rates. However, declines in rates have been greater among children and in the states where routine childhood vaccination is recommended, suggesting an impact of childhood vaccination. Despite declining overall rates, some states reported increasing rates in 2000–2001. In several states, these increases were related to outbreaks occurring among high-risk adults, including MSM, and cases among adults in high-risk groups represent an increasing proportion of reported cases nationwide. For example, cases among MSM increased from 4% (1990) to 8% (1995) to 12% (2000).

 CDC. Prevention of hepatitis A through active or passive immunization: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1999;48(No. RR-12).

#### Hepatitis B

During 2001, a total of 7,843 acute hepatitis B cases were reported, representing a >60% decrease since 1990 (21,102 cases). Surveillance data are being used to monitor the impact of the national strategy for eliminating hepatitis B virus (HBV) infection. Healthy People 2010 objectives call for a 75%–90% reduction in the national incidence of hepatitis B among adults (baseline: 15–24 cases/100,000), a 99% reduction among children aged 2–18 years (baseline: 945 cases/year), and a 75% reduction in the number of perinatal HBV infections (baseline: 1,682 infections/year) (1). The effect of routine infant and adolescent vaccination can already be seen in the declining rate of disease among persons aged <19 years. In contrast, the continued high incidence among persons in other risk groups for which vaccination is recommended, e.g., injection drug users and persons engaging in high-risk sexual behaviors, indicates that programs for reaching these populations need to be developed or strengthened.

 US Department of Health and Human Services. Healthy People 2010. 2nd ed. With Understanding and Improving Health and Objectives for Improving Health (2 vols.). Washington,

DC: US Department of Health and Human Services, 2000.

#### Hepatitis C; Non-A, Non-B

Cases of hepatitis C reported to CDC are considered unreliable because 1) no sero-logic marker for acute infection exists, and 2) most health departments do not have the resources to determine if a positive laboratory report for hepatitis C virus (HCV) infection represents acute infection, chronic infection, repeated testing of a person previously reported, or a false-positive result (1). Historically, the most reliable national estimates of acute disease incidence have come from sentinel surveillance. After adjusting for underreporting and asymptomatic infections, the annual number of new infections has decreased >80% since 1989 to 25,000 cases in 2001 (CDC, unpublished data, 2002). Because surveillance for acute hepatitis C can be used to evaluate the effectiveness of prevention efforts and identify missed opportunities for prevention, efforts are under way to help states establish and improve surveillance.

 CDC. Recommendations for prevention and control of hepatitis C virus (HCV) infection and HCV-related chronic disease. MMWR 1998;47(No. RR-19).

#### HIV Infection, Adult\*

Persons with HIV infection are living longer without progressing to AIDS. As a result, AIDS incidence is decreasing and no longer provides the most accurate information on the HIV epidemic. Recommendations for implementing national HIV case surveillance were published in December 1999, and the revised surveillance case definition became effective January 1, 2000 (1).

By December 31, 2001, 37 areas had laws or regulations requiring confidential reporting by name of adults/adolescents with confirmed HIV infection. Nine areas (Washington, DC, Hawaii, Illinois, Kentucky, Maryland, Massachusetts, Puerto Rico, Rhode Island, and Vermont) had implemented a code-based system to conduct case surveillance for HIV infection. Other areas (Delaware, Maine, Montana, Oregon, and Washington) had implemented a name-to-code system to conduct HIV infection surveillance: names are collected initially and later are converted to codes. Data on cases of HIV infection from those areas conducting code-based or name-to code systems are not included in this report pending evaluations demonstrating acceptable performance under CDC guidelines and the development of methods to report such data to CDC (2).

<sup>\*</sup>For information on AIDS, see page x.

Trend analysis is possible by examining data from the 25 states\* that have continually conducted HIV surveillance since 1994. These 25 states represent 24% of all AIDS cases diagnosed in the United States. During 1994-2000, HIV infection was diagnosed in 128,813 persons from the 25 states. The number of persons newly diagnosed each year with HIV infection declined steadily during 1994-1997, From 1997 through 2000, case counts have been stable in all age, race/ethnicity and HIV exposure categories. The largest declines were observed in the following groups: persons aged 25-44 years, men who have sex with men, and injection-drug users. The majority (55%) of persons with newly diagnosed HIV in these 25 states were black non-Hispanic, and 36% were white non-Hispanic. Because persons with newly diagnosed HIV infections include those who may have had previously unrecognized infections for a long time, these data do not represent incident infections. However, the stability in the number of infections diagnosed each year during the latter part of the 1990s and the small declines in the proportion of persons presenting with AIDS indicate that improvements in the targeting of HIV counseling and testing are needed to facilitate earlier diagnoses. Early diagnosis is a critical factor in ensuring that infected persons are linked to effective treatment and prevention services to reduce further transmission and improve quality of life (3).

- CDC. Guidelines for national human immunodeficiency virus case surveillance, including monitoring for human immunodeficiency virus infection and acquired immunodeficiency syndrome. MMWR, 1999;48(No. RR-13):1–31.
- CDC. HIV/AIDS Surveillance Report, 2002. Vol. 13, No. 2. Atlanta: Centers for Disease Control and Prevention. Available at http://www.cdc.gov/hiv/stats/hasrlink.htm.
- CDC. Diagnosis and reporting of HIV and AIDS in states with HIV/AIDS surveillance—United States, 1994–2000. MMWR 2002;51;595–8.

#### **HIV Infection, Pediatric**

As of December 2001, 39 areas conducted name-based surveillance for HIV infection among children aged <13 years. In 2001, 543 children whose infection had not progressed to AIDS and 175 children who had AIDS were reported (1). These states also received reports of perinatally exposed children who required follow-up with health-care providers to determine their HIV infection status.

In 2000, an estimated 6,075–6,422 infants were born to HIV-positive mothers in the United States. Of these infants, an estimated 280–370 were infected with HIV, representing a decline of >80% from the 1991 peak of 1,760 estimated HIV-positive U.S. births (2). Declines in perinatal HIV infections have been attributed to the use of zidovudine to reduce perinatal HIV transmission (3) and to nationwide efforts to implement routine, voluntary prenatal HIV testing for all pregnant women (4). Continued declines in perinatal HIV infections may be difficult to sustain unless new HIV infections in women of childbearing age are reduced.

- CDC. HIV/AIDS Surveillance Report, 2002. Vol 13, No. 2. Atlanta: Centers for Disease Control and Prevention. Available at http://www.cdc.gov/hiv/stats/hasr1302.htm.
- Fleming P, Lindegren ML, Byers R, et al. Estimated number of perinatal HIV infections, United States, 2000 [abstract Tu PeC4773]. Presented at the XIV International AIDS Conference. Barcelona, Spain. July 2002.

<sup>\*</sup>Alabama, Arizona, Arkansas, Colorado, Idaho, Indiana, Louisiana, Michigan, Minnesota Mississippi, Missouri, Nevada, New Jersey, North Carolina, North Dakota, Ohio, Oklahoma, South Carolina, South Dakota, Tennessee, Utah, Virginia, West Virginia, Wisconsin, and Wyoming.

- CDC. Public Health Service Task Force recommendations for the use of antiretroviral drugs in pregnant women infected with HIV-1 for maternal health and for reducing perinatal HIV-1 transmission in the United States. MMWR 1998;47(RR-2).
- CDC. Revised recommendations for HIV screening of pregnant women. MMWR 2001;50 (No. RR-19):59–86.

#### Lyme Disease

During 2001, 17,029 cases of Lyme disease were reported, most from the northeastern and north-central United States. During 1991–2000, the reported incidence of Lyme disease nearly doubled (1). LYMErix®, the Lyme disease vaccine produced by GlaxoSmithKline Pharmaceuticals, was removed from the market in February 2002 and is no longer available. CDC promotes community-based Lyme disease prevention using strategies aimed at reducing vector tick densities and preventing human infection and is currently funding such projects in Connecticut, Massachusetts, New Jersey, and New York.

1. CDC. Lyme Disease-United States, 2000. MMWR 2002;51:29-31.

#### Malaria

During 2001, 1,544 malaria cases were reported in the United States. Most cases were imported, with twice as many cases occurring among U.S. residents traveling to malarious areas as occurred among foreign residents immigrating to or visiting the United States (1). Although the number of reported cases was similar to 2000 (1,591) (2), the annual number of cases has increased during the past 15 years. This increase was likely caused by increases in both international travel (3) and immigration (4), as well as the spread and intensification of antimalarial drug resistance globally (5).

- Causer LM, Newman RD, Barber AM, et al. Malaria surveillance—United States, 2000. In: CDC Surveillance Summaries, July 12, 2002. MMWR 2002;51(No SS-5):9–23.
- 2. CDC. Summary of notifiable diseases, United States, 2000. MMWR 2002;49:1-102.
- International Trade Administration, Office of Travel and Tourism Industries. US resident travel
  to Canada, Mexico, and overseas countries historical visitation outbound, 1989–1999.
   Washington, DC: US Department of Commerce, International Trade Administration, Tourism
  Industries. Available at http://www.tinet.ita.doc.gov/view/f-1999-11-001/index.html.
- US Census Bureau. Current population reports. Series P23-205. Population profile of the United States: 1999. Washington, DC: US Government Printing Office, 2001. Available at http:// www.census.gov/prod/2001pubs/p23-205.pdf.
- Barat LM, Bloland PB. Drug resistance among malaria and other parasites. Infect Dis Clin North Am 1997;11:969–87.

#### Measles

A total of 116 confirmed measles cases were reported in 2001; cases occurred in 22 states. Fifty-four of the cases were internationally imported, and exposure to these cases resulted in 25 additional cases. Twelve other cases had virologic evidence of importation (i.e., genotypic analysis of measles viruses indicated an imported source). The remaining 25 cases were classified as unknown source cases because no link to importation was detected. The majority of confirmed measles cases (61 cases) occurred in persons aged ≥20 years; 29 cases occurred in persons 5–19 years, and 26 occurred in children aged <5 years. Ten outbreaks, ranging in size from 3 to 14 cases, accounted for 49% of cases (n = 57). All 10 outbreaks were linked to international importation; nine had an epidemiologic link to imported cases and one had virologic evidence of importation.

#### Meningococcal disease

Rates of meningococcal disease have been relatively stable in the United States. A total of 2,333 cases were reported in 2001, of which 1,931 were confirmed, 77 probable, seven suspected, and 318 of unknown case status. Serogroup information was reported for 33% of cases, and serogroup Y accounted for 33% of those reported. Most other cases were caused by serogroup B (32%) or serogroup C (27%). Although rates of meningococcal disease are usually highest among children aged <1 year, 55% of cases in 2001 occurred among persons aged ≥18 years.

Using the technology applied to the development of *Haemophilus influenzae* type b (Hib) conjugate vaccines, several companies are in the final stages of developing and testing meningococcal conjugate vaccines with various serogroup-specific formulas and in combination with other antigens for licensure in the United States (1). Three serogroup C meningococcal conjugate vaccines were licensed and integrated into routine childhood immunization in the United Kingdom in 2000; early results confirm 85%–95% efficacy in infants, toddlers and teenagers (2) and suggest herd immunity.

- Rosenstein NE, Perkins BA, Stephens DA, Popovic T, Hughes JM. Meningococcal disease. N Engl J Med 2000;344:1378–88.
- Miller E, Borrow R, Kaczmarski E, et al. Update on meningococcal C conjugate vaccination programme in England and Wales: coverage, herd immunity, vaccine efficacy, and validation of serological correlates. Presented at the Thirteenth International Pathogenic Neisseria Conference. Oslo, Norway, September 2002:60.

#### Mumps

Because of the recommendation of two doses of Measles/Mumps/Rubella vaccine and its high coverage rate in the United States, mumps is at record low levels. During the 1990s, mumps cases declined substantially, from 5,292 reported cases in 1990 to 266 reported cases in 2001, meeting the *Healthy People 2000* objective of <500 cases per year (1).

 CDC. Mumps surveillance-United States, 1988–1993. In: CDC Surveillance Summaries, August 11, 1995. MMWR 1995;44(No. SS-3).

#### **Pertussis**

During 2001, a total of 7,580 cases of pertussis were reported. Of these, 22% occurred among infants aged <6 months, who were too young to have received the recommended three doses of diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine; 3% occurred among children aged 6–11 months; 13% among preschoolaged children (i.e., those aged 1–4 years); 10% among children aged 5–9 years; 30% among persons aged 10–19 years; and 22% among persons aged ≥20 years.

Since 1995, the coverage rate with ≥3 doses of a pertussis-containing vaccine has been >94% among U.S. children aged 19–35 months (1). Since 1980, the number of reported cases of pertussis in infants aged <7 months and in adolescents and adults has increased markedly in some states (2). The reasons for this rise are unknown but could include increased awareness of pertussis among health-care providers, increased use of more sensitive diagnostic tests, better reporting of cases to health departments, and possibly an increase in circulating pertussis. In contrast, the incidence of reported pertussis among children aged 7 months to 9 years has not increased markedly and suggests protection against pertussis. Adolescents and adults can become susceptible to disease because vaccine-induced immunity is believed to wane approximately 5–10 years after pertussis vaccination.

- CDC. National, state, and urban area vaccination coverage levels among children aged 19–35 months—United States, 2001. MMWR 2001;50:637–41.
- 2. CDC. Pertussis-United States, 1997-2000. MMWR 2002;51:73-6.

#### Rubella

Because of the success of the U.S. rubella vaccination program, rubella is at a record low level, with 23 reported cases in 2001. Rubella now mostly occurs among adults born in countries that do not have routine rubella vaccination programs or that have only recently implemented such programs. In 2000 and 2001, 10 mothers of the 11 children with reported congenital rubella syndrome were foreign-born Hispanics.

#### Salmonellosis

A total of 40,495 salmonellosis cases were reported in 2001, an 11% decrease from 46,831 cases in 1995. Salmonella isolates are reported through the Public Health Laboratory Information System by serotype (1). Of >2,000 known Salmonella serotypes, the three most commonly reported in 2001 were S. Typhimurium, S. Enteritidis, and S. Newport; these accounted for 50% of isolates reported. During the 5-year period 1997–2001, the number of S. Newport isolates increased from 5% to 10% of all reported Salmonella isolates.

The increasing number of *S*. Newport infections in the United States is concurrent with the emergence and rapid dissemination of multidrug-resistant strains of *S*. Newport with resistance to at least nine antimicrobial drugs. Some strains are also resistant to third-generation cephalosporins such as ceftriaxone, which may be used to treat serious infections. Several outbreaks caused by multidrug-resistant *S*. Newport have been investigated, including one in which raw or undercooked ground beef was implicated (2).

- CDC. PHLIS surveillance data. Salmonella annual summaries. Available at http://www.cdc.gov/ ncidod/dbmd/phlisdata/salmonella.htm.
- CDC. Outbreak of multidrug-resistant Salmonella Newport—United States, January–April 2002. MMWR 2002;51:545–8.

#### **Shigellosis**

Shigella sonnei infections continue to account for approximately 75% of shigellosis in the United States. Prolonged, communitywide outbreaks of *S. sonnei* infections that are transmitted in child care centers and other settings where maintenance of good hygienic conditions requires special care account for much of the problem (1). In 2001, one such outbreak in Ohio and Kentucky accounted for several hundred laboratory-confirmed infections. *S. sonnei* can also be transmitted through contaminated foods and through water used for drinking or recreational purposes (2,3). Recent evidence suggests that *S. sonnei* infections are increasing among men who have sex with men (4).

- Mohle-Boetani JC, Stapleton M, Finger R, et al. Communitywide shigellosis: control of an outbreak and risk factors in child day-care centers. Am J Public Health 1995;85:812-6.
- CDC. Outbreaks of Shigella sonnei infection associated with eating fresh parsley—United States and Canada, July-August 1998. MMWR 1999;48:285–9.
- CDC. Shigellosis outbreak associated with an unchlorinated fill-and-drain wading pool, lowa, 2001. MMWR 2001;50:797–800.
- CDC. Shigella sonnei outbreak among men who have sex with men—San Francisco, California, 2000–2001. MMWR 2001:50:922–6.

## Streptococcal Disease, Invasive, Group A (including streptococcal toxic-shock syndrome)

During 2001, 1,147 cases of invasive group A streptococcal (GAS) disease were reported from nine states (California, Colorado, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee) through the Active Bacterial Core Surveillance (ABCs) project under CDC's Emerging Infections Program (7). Based on these 1,147 cases, CDC estimates that approximately 9,930 cases of invasive GAS disease (rate: 3.5/100,000) and 1,350 deaths occurred nationally during 2001. Disease incidence was highest among children aged <1 year (5.5/100,000) and adults aged ≥65 years (9.9/100,000). Streptococcal toxic-shock syndrome and necrotizing fasciitis accounted for approximately 5.9% and 6.7% of invasive cases, respectively. The overall case-fatality rate among persons with invasive GAS disease was 13.2%.

In 2002, CDC published recommendations for the control of invasive group A streptococcal disease among household contacts of persons with invasive GAS infections and for responding to postpartum and postsurgical infections. These recommendations are based on routine surveillance data, studies of the epidemiology of subsequent invasive GAS infections among household contacts of case-patients and postpartum and postsurgical GAS clusters, and studies of the effectiveness of chemoprophylactic regimens for eradicating carriage (2).

 CDC. Active Bacterial Core Surveillance (ABCs) report. Emerging Infections Program Network. Group A streptococcus, 2001. Available at http://www.cdc.gov/ncidod/dbmd/abcs/survreports/gas01\_provis.pdf

The Prevention of Invasive Group A Streptococcal Infections Workshop Participants. Prevention
of invasive group A streptococcal disease among household contacts of case patients and
among postpartum and postsurgical patients: recommendations from the Centers for Disease
Control and Prevention. Clin Infect Dis 2002;35:950-9.

#### Streptococcus pneumoniae, Invasive, Drug-Resistant

In 2001, the ABCs project of CDC's Emerging Infections Program(1) collected information on invasive pneumococcal disease, including drug-resistant *Streptococcus pneumoniae*, in nine states (California, Colorado, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee). For the first time, the proportion of pneumococcal isolates that were drug resistant was lower in the current year than reported in the previous year. Of the 3,418 *S. pneumoniae* isolates collected in 2001, 9.7% exhibited intermediate resistance to penicillin (minimum inhibitory concentration [MIC] 0.1–1 µg/mL), and 15.6% were fully resistant (MIC ≥2 µg/mL); in 2000, 9.8% were intermediate and 17.1% were fully resistant (2). For cefotaxime, 10.5% of all isolates had intermediate resistance and 5.7% were fully resistant in 2001, compared with 9.8% of all isolates with intermediate resistance and 7.5% fully resistant in 2000. For erythromycin, 19.4% were resistant in 2001 versus 21.3% in 2000. Approximately one in six (16.9%) isolates had reduced susceptibility to at least three classes of drugs commonly used to treat pneumococcal infections, a decline from approximately one fifth (18.9%) of isolates in 2000.

In February 2000, the Food and Drug Administration licensed a pneumococcal conjugate vaccine for use in infants and young children. In October 2000, the Advisory Committee on Immunization Practices issued recommendations for use of the vaccine in children aged <5 years (3). Among isolates from children aged <5 years reported to ABCs during 2001, 63.9% of all strains (n = 587) and 75.9% of strains not susceptible to penicillin (n = 199) were serotypes included in this 7-valent vaccine.

- Schuchat A, Hilger T, Zell E, et al. Active Bacterial Core Surveillance of the Emerging Infections Program Network. Emerg Infect Dis 2001;7:1–8. Available at http://www.cdc.gov/ncidod/eid/vol7no1/schuchat.htm.
- National Committee for Clinical Laboratory Standards. Performance standards for antimicrobial susceptibility testing: M100-S11. Wayne, PA: National Committee for Clinical Laboratory Standards, 2001.
- CDC. Preventing pneumococcal disease among infants and young children: recommendations
  of the Advisory Committee on Immunization Practices. MMWR 2000;49(No. RR-9):1–38.

#### Streptococcus pneumoniae, Invasive, <5 Years

Invasive Streptococcus pneumoniae infection in children aged <5 years was reportable in 28 states and the District of Columbia in 2001. Of these 29 jurisdictions with mandated reporting, only 11 states and the District of Columbia reported cases. The incidence rate in these reporting areas was 13.3/100,000, which is lower than the rate of 39.7 cases/100,000 population estimated from data collected through the Active Bacterial Core Surveillance (CDC, unpublished data).

#### Syphilis, Congenital

During 2001, a total of 441 cases of congenital syphilis were reported (rate: 11.1/100,000 live births). Like primary and secondary syphilis, the rate of congenital syphilis has declined sharply in recent years, from a peak of 107.3/100,000 in 1991 (1). The continuing decrease in the rate of congenital syphilis likely reflects the substantial reduction in the rate of primary and secondary syphilis among women that has occurred in the last decade. Congenital syphilis persists in the United States because a substantial number of women do not receive syphilis serologic testing until late in their pregnancy or not at all. This lack of screening is often related to absent or late prenatal care (2).

- CDC. Sexually transmitted disease surveillance 2000. Atlanta, GA: US Department of Health and Human Services, Public Health Service, CDC, 2001.
- 2. CDC. Congenital syphilis-United States, 2000. MMWR 2001;50:573-7.

#### Syphilis, Primary and Secondary

During 2001, a total of 6,103 primary and secondary syphilis cases were reported. From 1990 to 2000, the primary and secondary syphilis rate declined 90%, from 20.34/100,000 to 2.12/100,000. The overall 2001 rate (2.17/100,000) is a 2% increase from the 2000 rate, which was the lowest since reporting began in 1941 (1) and the first annual increase since 1990. The 2001 primary and secondary syphilis rate reflects a 15.4% increase among men but a 17.7% decrease among women. This disparity between men and women, observed across all racial and ethnic groups, along with reported outbreaks of syphilis among men who have sex with men (MSM) in large urban areas, suggests that increases in syphilis are occurring among MSM. Rates also remain disproportionately high in the South and among non-Hispanic blacks. (2,3).

- CDC. Sexually transmitted disease surveillance 2000. Atlanta, GA: US Department of Health and Human Services, Public Health Service, CDC, 2001.
- CDC. Outbreak of syphilis among men who have sex with men—Southern California, 2000. MMWR 2001;50:117–20.
- 3. CDC. Primary and secondary syphilis-United States, 1999. MMWR 2001;50:113-7.

#### **Tetanus**

In 2001, 37 cases of tetanus were reported from 15 states. Four (10.8%) cases were among persons aged <25 years, 19 (51.4%) cases were among persons aged 25–59 years, and 14 (37.8%) cases were among persons aged ≥60 years. The percentage of cases among persons aged 25–59 years has increased during the last decade; previously, most cases were among persons aged ≥60 years (1). One neonatal case with an atypical presentation of tetanus was reported from California. The mother of the infant was foreign born and had an unknown vaccination status. The infant recovered after 30 days of hospitalization. Six (16.7%) of the non-neonatal cases were fatal.

 CDC. Tetanus Surveillance—United States, 1995–1997. In: CDC surveillance Summaries, July 3, 1998. MMWR 1998:47(No. SS-2):1–13.

#### **Tuberculosis**

During 2001, a total of 15,989 cases (rate: 5.6/100,000 population) of tuberculosis (TB) were reported to CDC from the 50 states and the District of Columbia, representing a 2% decrease from 2000 and a 40% decrease from 1992, when the number of cases and the case rate most recently peaked in the United States (1). In 1991, 73% of reported cases were among U.S.-born persons (rate: 8.2/100,000), and 27% were among foreign-born persons (33.9/100,000). In comparison in 2001, there was an equal distribution (50%) in the number of TB cases among these two groups (case rates: 3.1/100,000 for U.S.-born persons and 26.6/100,000 for foreign-born persons) (1).

Despite the decrease in case rate among foreign-born persons during the past decade, half of the TB cases in the United States in 2001 occurred in this population, and the case rate was eight times greater in this population than among U.S.-born persons. To address the high rate, CDC is collaborating with public health partners to implement TB control initiatives among recent international arrivals and residents along the border between the United States and Mexico and to strengthen TB programs in countries with a high incidence of TB disease (2). CDC has recently updated its comprehensive national action plan to reflect the alignment of its priorities with the Institute of Medicine report (3) and to ensure that priority prevention activities are undertaken with optimal collaboration and coordination among national and international public health partners (4).

- CDC. Reported tuberculosis in the United States, 2001. Atlanta, GA: US Department of Health and Human Services, CDC, September 2002. Available at http://www.cdc.gov/tb.
- CDC. Tuberculosis morbidity among U.S.-born and foreign-born populations—United States, 2000. MMWR 2002;51:101–4.
- Institute of Medicine. Ending neglect: the elimination of tuberculosis in the United States. Washington, DC: National Academy Press, 2000.
- CDC. CDC's response to ending neglect: the elimination of tuberculosis in the United States.
   Atlanta: US Department of Health and Human Services, CDC, 2002.

#### Typhoid Fever

In 2001, typhoid fever was diagnosed in 368 persons in the United States. Despite the availability of two effective vaccines, NNDSS reports 350–450 cases each year. Approximately 80% of these cases occur among persons who report international travel during the 6 weeks before illness. Persons visiting friends and relatives in their country

of origin appear to be at high risk (1). In many areas of the world, Salmonella Typhi strains have acquired resistance to multiple antimicrobial agents, including ampicillin, chloramphenicol, and trimethoprim-sulfamethoxazole (1). S. Typhi outbreaks in the United States are generally small in size, but they can cause significant morbidity and are often foodborne, warranting thorough investigation (2).

- Ackers ML, Puhr ND, Tauxe RV, Mintz ED. Laboratory-based surveillance of Salmonella Serotype Typhi infections in the United States: antimicrobial resistance on the rise. JAMA 2000;283: 2668–73.
- Olsen SJ, Bleasdale SC, Magnano AR, et al. Outbreaks of typhoid fever in the United States, 1960–1999. Epidemiol Infect 2002: In Press.

# PART 1

# Summaries of Notifiable Diseases in the United States, 2001

# ABBREVIATIONS AND SYMBOLS USED IN TABLES

Data not available	NA
Report of disease is not required in that jurisdiction (not notifiable)	NN
No reported cases	_
American Samoa	AS
Commonwealth of Northern Mariana Islands CN	MI
Guam	GU
Puerto Rico	PR
U.S. Virgin Islands	VI
Note: Rates <0.01 after rounding are liste as 0.00.	ed

Disease	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AIDS	41,868	2,550	2,949	3,275	2,886	3,482	3,759	3,406	3,217	3,696	3,507	4,369	4,772
Anthrax	23	1	1	1	1	1	-	1	1	8	11	7	-
Botulism, foodborne	39	1	4	I	2	2	2	-	6	13	1	1	9
Infant	97	m	មា	15	00	10	7	7	7	O	o	ထ	11
Other (includes wound)	19	1	١	2	~	1	2	-	ຜ	-	1	2	4
Brucellosis	136	S	4	13	KD.	12	19	7	17	14	11	7	20
Chancroid*	38	1	1	O	1	1	12	1	1	7	1	1	10
Chlamydia <sup>41</sup>	783,242	1	1	187,864	1	1	190,115	1	Ī	197,521	1	-2	207,742
Cholera	e	1	1	1	-	-	1	-	1	1	1	1	1
Coccidioidomycosis**	3,922	88	242	200	162	63	303	218	258	361	398	336	1,292
Cryptosporidiosis	3,785	116	134	189	146	145	232	289	860	827	302	274	271
Cyclosporiasis**	147	-	15	4	80	NO.	20	14	29	23	15	7	9
Diphtheria	2	1	1	1	1	-	1	1	1	-	1	1	1
Ehrlichiosis, human													
granulocytic	261	-	-	16	1	4	15	43	46	40	9	14	75
Human monocytic	142	m	-	3	2	9	21	24	16	15	00	7	36
Encephalitis, California													
serogroup viral	128	1	١	1	I	-	-	1	19	40	28	12	16
Eastern equine	on	1	1	1	1	1	1	1	4	2	2	1	-
St. Louis	79	1	1	-	1	1	-	1	40	33	e	1	m
Escherichia coli													
enterohemorrhagic (EHEC)													
0157:H7	3,287	26	88	103	115	170	354	362	487	627	339	240	345
EHEC, serogroup non-0157	171	2	2	00	9	80	10	13	33	20	18	20	28
EHEC, not serogrouped	20	-	1	2	1	-	1	-	2	4	4	2	ന
Gonorrhea®	361,705	1	1	86,379	1	1	83,831	1	١	95,705	1	1	95,790
Haemophilus influenzae,													
invasive disease	1,597	110	125	169	133	121	178	87	96	100	80	108	290
Hansen disease (leprosy)	79	က	S	6	4	9	10	7	2	4	7	s)	17
Hantavirus pulmonary													
syndrome	80	-	1	2	-	1	-	1	I	-	-	I	-
Hemolytic uremic syndrome,													
postdiarrheal	202	9	9	9	00	10	17	20	16	34	25	5	38
Hepatitis A	10,609	653	742	864	652	639	859	769	951	1,301	938	910	1,334
Hepatitis B	7,843	361	476	751	541	558	713	580	632	749	563	614	1,305
Hepatitis C; non-A, non-B	3,976	304	352	403	338	287	410	277	313	359	282	224	427
-egionellosis	1,168	42	61	77	71	99	114	111	94	152	110	66	181
isteriosis	613	26	40	34	42	49	51	62	63	71	51	56	68
umo diennen	17 029	174	130	279	POC	EAD	1 005	2070	2 000	2000		-	

TABLE 1. (Continued) Reported cases of notifiable diseases,\* by month — United States, 2001

		-	-00-	Mar.		APIA	91100	AIDS	-555	3000	250		
Malaria	1.544	06	104	96	74	112	137	182	163	210	82	84	210
Massies	118	13	20	26	u	11	•		11	-		α .	
Meniposocio diesese	2 333	326	200	303	249	170	200	110	100	130	130	124	273
Minney	2000	200	100	300	2 2 2	000	000	9	200	000	2 .	200	24
Mullips	202	2	2	7	17	53	D :	0	20	0	7	ח	04
Pertussis	7,580	341	443	263	350	348	461	359	445	637	512	612	2,509
Plague	2	1	1	1	1	1	2	1	1	1	-	1	1
Psittacosis	25	-	1	2	-	1	es	-	-	-	6	7	2
Q fever**	26	1	1	2	1	2	6	7	-	S	-	-	4
Rabies, animal	7,150	423	431	733	624	548	691	508	676	853	547	475	641
Rabies, human	-	1	1	1	-	-	1	-	1	1	1	1	1
Rocky Mountain spotted fever	969	4	9	0	15	32	88	110	83	66	99	40	143
Rubella	23	1	1	2	-	2	9	-	-	8	2	1	2
Rubella, congenital syndrome	6	1	1	1	1	1	1	1	1	1	1	1	m
Salmonellosis	40,495	1,566	1.748	2,327	2,406	2,632	4.210	4.251	4.646	5,666	3,639	3.016	4,388
Shigellosis	20,221	891	913	1,216	986	1,206	2,008	1,959	2,405	2,384	1,905	1,608	2,740
Streptococcal disease,													
invasive, group A	3,750	269	324	466	433	294	366	291	190	236	216	212	453
Streptococcal toxic-shock													
syndrome	77	00	6	7	6	7	=======================================	-	ເດ	3	es	4	10
Streptococcus pneumoniae,													
invasive, drug-resistant**	2,896	224	338	396	303	218	212	127	116	128	87	134	613
Streptococcus pneumoniae,													
invasive, <5 years**	498	64	61	61	59	45	24	15	17	26	45	40	41
Syphilis, total (all stages)*	32,221	1	1	7,152	1	1	8,256	1	1	8,399	1	1	8,414
Congenital (age <1 yr) <sup>§</sup>	441	1	1	119	1	1	113	1	1	123	1	1	86
Primary and secondary*	6,103	1	1	1,335	1	1	1,488	1	1	1,609	1	1	1,671
Tetanus	37	4	-	-	ល	e	00	-	3	1	1	2	0
Toxic-shock syndrome	127	2	13	25	9	6	9	11	9	6	7	10	20
Trichinosis	22	2	-	-	-	1	e	8	-	9	9	1	-
Tuberculosis <sup>↑↑</sup>	15,989	563	881	1,233	1,200	1,336	1,461	1,228	1,398	1,290	1,384	1,304	2,711
Tularemia	129	-	-	3	9	D	28	22	23	18	10	9	19
Typhoid fever	368	o	22	29	19	38	34	30	39	48	32	21	47
Varicella (chickenpox)	22,536	1,385	1,689	2,472	2,505	1,811	1,475	283	1,345	683	1,623	1,843	5,422

\* No cases of western equine encephalitis, paralytic poliomyelitis, or yellow fever were reported in 2001.

Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention—Surveillance and Epidemiology. National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2001.

Totals reported quarterly to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002.

Chalamydia refers to genital infections caused by C. trachomatis.

\*\*Notifiable in <40 states.\*\*

Totals reported to the Division of Tuberculosis Elimination, NCHSTP, as of March 29, 2002.

TABLE 2. Reported cases of notifiable diseases, by geographic division and area — United States, 2001

	Total resident population				tulism			
Area	(in thousands)	AIDS*	Anthrax	Foodborne	Infant	Other <sup>1</sup>	Brucellosis	Chancroid <sup>1</sup>
United States	281,418	41,8681	23	39	97	19	136	38
New England	13,923	1,565	1	_	-	-	-	2
Maine	1,275	48	-	_	****	-	-	-
N.H.	1,236	40	menn.	. minut	-	-	_	-
Vt.	609	25	-	-	-	****	_	-
Mass.	6,349	765	-	_	_	-	_	2
R.I.	1,048	103	1	_	-	-	_	_
Conn. Mid. Atlantic	3,406 39,671	584 11,072	14	1	23	_	4	7
Upstate N.Y.	11,291	1,492	14	,	2	_	1	,
N.Y. City	7,685	5.984	7	_	4	_	1	3
N.J.	8.414	1,756	6	_	6	_	1	3 4
Pa.	12,281	1,840	1	1	11	-	1	_
E.N. Central	45,154	3,023	_	-	3	-	7	=
Ohio	11,353	581	-	whether	3	_	-	=
Ind.	6,080	378	-	-	-	-	-	_
106.	12,419	1,323	-	-	-	-	4	-
Mich.	9,938	548	-		-		3	-
Wis.	5,364	193	-	_		-	_	and the same of
W.N. Central	19,236	892	_	-	2	-	7	-
Minn.	4,919	157	-	-	2	-	2	-
lowa Mo.	2,926 5,595	90 445	_	Ξ	_	_	2	-
N. Dak.	642	3	_	_	_	_	-	_
S. Dak.	755	25	-	_	_	_	_	
Nebr.	1,711	74	_	-	_	_	1	-
Kans.	2,688	96	-	_	_	-	1	-
S. Atlantic	51,768	12,583	7	-	12	-	9	20
Del.	784	248	_	-	1	-	1	-
Md.	5,296	1,860	3	_	5	-	-	(mean)
D.C.	572	870	-	-	_	-	-	-
Va.	7,079	951	2	-	4	_	1	-
W. Va.	1,808	100	-	_	1	-	_	-
N.C. S.C.	8,049 4,012	942 729	_	_	_	-	2	3 15
Ga.	8.186	1,745	-	_	1	_	1	13
Fia.	15,982	5,138	2	_	-	_	4	2
E.S. Central	17,023	1,791	_	-	9	_	3	-
Ky.	4.042	333	_	_	5	-	1	-
Tenn.	5,689	602	_	_	4	_	1	_
Ala.	4,447	438	=	_	_	-	1	****
Miss.	2,845	418	-	_	mm	_	-	***
W.S. Central	31,445	4,195	1	17	5	-	52	6
Ark.	2,673	199	-	1	-		9	
La.	4,469	861	_	1	-	***	2	-
Okia.	3,451	243	1	-	1	-		_
Tex. Mountain	20,852 18,172	2,892 1,386	1	15	9	-	41	6
			_			-	10	
Mont. Idaho	902 1,294	15 19	-	_	1	-	-	_
Wyo.	494	5	_	_		_		_
Colo.	4.301	288	_	_	_	_	2	_
N. Mex.	1,819	143	_	_	1	-	1	-
Ariz.	5,131	540		1	2	-	6	*****
Utah	2,233	124	_	-	4	-	1	1
Nev.	1,998	252	_	_	1	-	-	
Pacific	45,026	5,248	-	20	34	19	44	2
Wash.	5,894	532	-	7	-	-	_	_
Oreg.	3,421	259	-	_	2	1	-	_
Calif. Alaska	33,872	4,315	-	3	30	18	41	2
Hawaii	627 1,212	18 124	=	10	2	_	3	_
GU	158	12		-	-	-	1	-
PR VI	3,937 122	1,242	NA	NA	010	NIA	010	4
AS	67	35	NA	NA	NA	NA	NA	
CNMI	75	1		3	_	_	_	_

<sup>\*</sup> Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention.—Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2001.
Includes cases reported as wound and unspecified botulism.
\* Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002.
\* Total includes 113 cases in persons with unknown state of residence.

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2001

Area	Chlamydia*	Choiera	Coccidioidomycosis	Cryptosporidiosis	Cyclosporiasis	Diphtheria
United States	783,242	3	3,922	3,785	147	2
New England	24,391	1	3	152	20	=
Maine	1,338	_	NN	19	_	-
N.H.	1,383	1	3	17	_	_
Vt.	638	-	NN	34	NN	_
Mass.	10,402	_	NN	55	16	-
R.I.	2,912	religion	NN	10	N	= = = = = = = = = = = = = = = = = = = =
Conn.	7,718	_	NN	17	4	_
Mid. Atlantic	91,076	2		374	36	_
Upstate N.Y.	16,744	1	NN	125	5	_
N.Y. City	29,649	1	NN	123	20	_
N.J.	16,312 28,371	*840	NN NN	24 102	3	_
Pa. E.N. Central	144,001		8	1,607	5	-
	37,653	_	NN	183	9	
Ohio Ind.	15,258	_	NN	90	_	_
ma. m.	43,716	_	NN	483	2	
Mich.	31,090	_	8	187	2 3	1
Wis.	16,284	-	NN	664	_	
W.N. Central	40,110	_	5	546	1	=
Minn.	8,323	-	NN	197	_	_
lowa	5,699	_	NN	82	1	_
Mo.	13,949	-	NN	56	-	-
N. Dak.	1,062	-	NN	15	NN	_
S. Dak.	1,821	_	NN	8	-	-
Nebr.	3,206	-	5	185	***	=
Kans.	6,050	_	NN	4	NN	_
S. Atlantic	151,297	_	-	380	79	-
Del.	2,793	-	NN	6	-	
Md.	15,640	_	NN	40	NN	-
D.C.	3,286	_		14	1	-
Va.	18,337	-	NN	27	1	=
W. Va.	2,348	40.00	NN	2	_	-
N.C. S.C.	22,101	Printer.	NN	31	_	_
S.C.	15,329	_	NN	7	-	_
Ga.	33,840	-	NN	162	29	_
Fla.	37,625	-	NN	91	48	-
E.S. Central	50,758	_	-	62		-
Kγ.	8,881	-	NN	5	NN	_
Tenn.	15,560	-	NN	24 18	NN	_
Ala.	14,524	chado	NN	15	1.61.0	-
Miss. W.S. Central	11,793 105,350		1.61.4	130	_	
	7,290	_	NN	10	NN	_
Ark.			NN	8	DADA	_
La. Okla.	17,840	_	NN	16	_	_
Tex.	10,478 69,752	_	NN	96	_	_
Mountain	46,455	_	2.368	243	6	1
Mont.	1,919		NN	37		1
Idaho	2.023	_	1414	23	NN	-
Wyo.	839	_	4	7	1414	_
Colo.	13,239	_	NN	44	5	_
N. Mex.	6.254	-	14	30	1	_
Ariz.	14,346	_	2.301	11	NN	-
Utah	3,004	-	11	84		-
Nev.	4,831	_	38	7	-	-
Pacific	129,804		1,538	291	_	-
Wash.	13,631	-	NN	-	_	-
Oreg.	7,454	-	NN	58	-terms	_
Calif.	101,944	_	1,538	229	NN	
Alaska	2,744	_	NN	1	-	_
Hawaii	4,031		NN	3	_	_
GU	431 2,748	-	NN	_	_	-
PR VI	131	NA	NA NA	NA	NA	NA
AS	NA	110		NA	_	-
CNMI	NA	1	_	NA	-	_

<sup>\*</sup> Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002. Chlamydia refers to genital infections caused by C. trachomatis.

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2001

	F1 11 1			Encephaliti	5°	Francis	. A. t At .		
	Ehrliel		California						rhagic (EHEC)
Area	Human granulocytic	Human monocytic	serogroup viral	Eastern	St. Louis	NETSS'	7:H7 PHLIS	Serogroup non-O157	Not serogrouped
United States	261	142	128	9	79	3,287	2.580	171	20
New England	62	4	1	1	_	250	233	43	1
Maine	1	-	one	-		29	27	2	_
N.H.	_	-	-		-	36	32	3	-
Vt.	-	emplo	-	****	-	15	10	1	1
Mass.	2	4	-	1	-	115	114	10	_
R.J.	17	_	-		-	17	12	1	-
Conn.	42	in the same	1	-	-	38	38	26	_
Mid. Atlantic	85	27	-	_	-	251	219	_	3
Upstate N.Y.	73	18	-	_	-	161	145	-	-
N.Y. City	6	4	-	_	-	16	11	_	_
N.J.	6	5	-	-	-	74	63	_	-
Pa.	_	_	-	_		NN			3 7 7
E.N. Central	2	4	31	1	conten	813	529	12	7
Ohio	1		14	_		224	158	10	7
ind.	-	1	5	_		90	49	_	-
III.	7	3	5	_	-	174	141	_	-
Mich.	_	-	-	1	_	102	88	2	19601
Wis.		34	7	_	-	223	93	400	4
W.N. Central	102		14		_	523	493	46	4
Minn.	93	3	12	_	_	219	232	36	-
Iowa	_	-	2		-	79	69	NN	NN
Mo.	8	27	_	_	-	66	97		
N. Dak. S. Dak.	NN	NN	-	-		27 44	36 44	3 6	4
	- material	_	_	_	_	60	443	1	_
Nebr. Kans.	1	4		-		28	15	,	_
S. Atlantic	-	24	56	5	_	269	203	41	_
Del.		24	30	_	_	4	8	1	_
Md.	NN	NN	1	_	_	29	1	-	
D.C.	-	1414	-	_	_	433		_	_
Va.	_	1	2	_	_	52	43	9	_
W. Va.	_	_	44	_	-	11	8	_	-
N.C.	-	11	9	-	_	59	75	_	-
S.C.	-	-	_		-	24	10	_	_
Ga.	-	4	_	2	_	45	29	10	-
Fla.	_	8	-	2 3	-	45	29	21	with the same of t
E.S. Central	_	24	26	_	-	144	127	1	3
Ky.	-	2	-	-	-	65	49	1	3
Tenn.	Comp.	22	17	_	_	49	56	minus	_
Aln.	_		1	_	_	18	13	wine	1000
Miss.	NN	NN	8	-	-	12	9	-	-
W.S. Central	8	24	minum	2	78	222	120	_	-
Ark.	8	-	maker	-	2	17	****	600	_
La.	NN	NN	_	7	71	8	27	_	_
Okla.	-	24	-	-	_	36	34	_	-
Tex.	-		when .	7	5	161	59	- Children	_
Mountain	-	1	_	-	1	301	202	22	2
Mont.	NN	NN		-	-	23	-	_	-
Idaho	NN	NN		000000	-	81	46	5	-
Wyo.	min	0000	main	-	1000	10	2	3	****
Colo.	NN	NN	-	-	****	87	50	8	2
N. Mex.	NN	NN	-	-	_	17	14	6	-
Ariz.	-	1	_	_	1	30	23	_	_
Utah	-	_	-	minute	-	35	45	_	water.
Nev.		_	_	_	-	18	22	_	_
Pacific	2	_	200	-	-	514	454	6	_
Wash.	_		NN	NN	_	150	136	_	-
Oreg.	1		_	_	_	86	76	6	_
Calif.	1	0.001	ellino	-000-		253	229	white	-philos
Alaska Hawaii	NN	NN	_	-	_	4 21	12	-	_
GU	-	_	_	_	_	1	_	-	-
PR	_	-	_	-	_	2	_	_	-
VI	NA	NA	NA.	NA	NA.	NA	NA	NA	NA.
AS	_	-	-	-	_	NA	-	NA	NA
CNMI	-	_	_	-	-	NA	-	NA	NA

No cases of western equine encephalitis were reported in 2001.
National Electronic Telecommunications System for Surveillence.
Public Health Laboratory Information System. Totals reported to the National Center for Infectious Diseases as of June 12, 2002.

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2001

		Haemophilus influenzae,	Hansen	Hantavirus	Hemolytic uremic	He	patitis, ac	
Area	Gonorrhea*	invasive disease	(leprosy)	pulmonary syndrome	syndrome, postdiarrheal	A	В	C; non-A non-B
United States	361,705	1,597	79	8	202	10,609	7,843	3,976
New England	6,983	121	1	-	18	736	149	34
Maine	141	2	_		1	11	7	1
N.H.	176	7	****	-	-	18	16	_
Vt.	76 3.214	5 43	NN	_	970	16	5	7
Mass. R.I.	830	10	1	-	13	376 75	41 33	26
Conn.	2,546	54	_	_	3	240	47	_
Mid. Atlantic	45,464	248	17	-	27	1,370	1,426	1,397
Upstate N.Y.	9,685	98	1	-	16	333	153	36
N.Y. City	12,614	50	15	-	2	447	660	_
N.J.	8,921	48	3	-	5	283	286	1,218
Pa.	14,244	43	_	-	4	307	327	143
E.N. Central	75,291	285	3	-	23	1,214	1,049	161
Ohio Ind.	21,163 6,972	74 59	1		12	258 102	92 75	9
III.	24.025	103	1	_	3	441	218	12
Mich.	17,120	14	1	_	-	326	618	139
Wis.	6,011	35	-	_	8	87	46	130
W.N. Central	17,045	89	2	_	12	395	250	1,170
Minn.	2,701	56	1	4600	9	47	44	33
lowa	1,418	-	-	-	eteres.	36	24	_
Mo.	8,723	20	1	-	2	88	130	1,119
N. Dak.	56	8	NN	_	1	3	2	_
S. Dak. Nebr.	289 1,189	3	-	NN	NN	37	35	10
Kans.	2,669	2	_	nene	DADA	181	14	8
S. Atlantic	93,709	394	2	_	13	2,693	1,666	144
Del.	1,733	_	_	_	_	16	29	11
Md.	9,427	92	-	NN	NN	296	141	9
D.C.	2,883	-	-		_	80	13	_
Va.	11,095	34	1	-	-	167	213	3
W. Va.	732	16			_	29	35	26
N.C. S.C.	16,583 10,805	50 8	NN	NN	2	242 85	221	22 13
Ga.	18,920	109	NN		6	930	72 435	1.3
Fla.	21,531	85	1	_	5	848	507	60
E.S. Central	32,674	84	2	_	10	453	520	198
Ky.	3.588	2	-	-	NN	145	64	13
Tenn.	10,145	51	2	PROF.	10	189	275	70
Ala.	11,182	29	-	NN	Access.	81	88	5
Miss.	7,759	2	_	NN		38	93	110
W.S. Central	51,665	64	2	1	18	825	1,061	671
Ark.	4,604	3	1	_	1	74	107	15
La. Okla.	12,253 4,784	10	1	1	5	87 116	124 116	151
Tex.	30,024	3		_	12	548	714	499
Mountain	10,382	175	4	6	27	753	497	58
Mont.	104	1	_	_	_	16	3	1
Idaho	76	2	1	2	NN	57	11	2
Wyo.	77	1	_	_	_	7	3	8
Colo.	3,190	38	NN	_	11	88	103	11
N. Mex.	1,040	29	_	2	A10.1	40	136	12
Ariz.	3,920	82	1	1	NN	409	164	9
Utah Nev.	219 1,756	10 12	1	,	13	96 70	25 52	12
Pacific	28,492	137	46	1	54	2,170	1,225	143
Wash.	2.991	9	NN	1	-	184	171	31
Oreg.	1,144	39		_	11	105	168	15
Calif.	23,296	60	22	-	43	1,848	854	97
Alaska Hawaii	457 604	6 23	24		_	16 17	10 22	_
GU	48	_	_	-	_	2	_	_
PR	589	2	1	NN	NN	258	297	1
VI	34	NA	NA	NA	NA	NA	NA	NA
AS	NA	NA	1	-	_	2	NA	NA

<sup>\*</sup> Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002.

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2001

						sles	Meningococca
Area	Legionellosis	Listeriosis	Lyme disease	Malaria	Indigenous	Imported*	disease
United States	1,168	613	17,029	1,544	62	54	2,333
New England	74	57	5,526	107	4	1	113
Maine	8	2	108	5		_	8
N.H.	12	4	129	2	-		14
Vt.	5	3	18	1	1	_	7
Mass.	21	30	1,164	53	2	1	57
B.L.	13	3	510	16			7
Conn.	15	15	3.597	30	1	-	20
Mid. Atlantic	285	119	8,909	440	7	13	257
Upstate N.Y.	82	36	4,020	76	-	4	72
N.Y. City	43	26	63	250	3	4	42
N.J.	24	20	2,020	65	-	1	43
Pa.	136	37	2,806	49	4	4	100
E.N. Central	316	88	720	177	_	10	361
Ohio	143	17	44	27	-	3	91
Ind.	23	8	26	19	-	4	47
181.	24	24	32	71	=	3	88
Mich.	82	25	21	40	-	-	83
Wis.	44	14	597	20	2 2	-	52
W.N. Central	56	22	540	77	2	4	174
Minn.	15	4	461	45	2	2	29
Iowa	8	2	36	9	-	-	31
Mo.	22	10	37	15	name:	2	56
N. Dak.	1	-	_	-	-	-	8
S. Dak.	3 5	mante	white	-	-	_	5
Nebr.	5	1	4	2		-	28
Kans.	1	5	2	6	-	-	15
S. Atlantic	223	77	1,039	317	3	2	383
Del.	12	NN	152	2	-	-	6
Md.	32	16	608	112	2	1	42
D.C.	8	-	17	13	_	and the same of	_
Va.	39	15	156	55	1	-	46
W. Va.	NN	6	16	1	-	-	15
N.C.	11	NA	41	19	-	10000	63
S.C.	15	5	6	9	-	_	33
Ga.	12	16	46	45	-	1	57
Fla.	94	19	43	61	-	_	121
E.S. Central	63	23	72	38	2	_	146
Ky.	14	7	23	14	2	-	27
Tenn.	32	9	31	14	-	-	64
Ala.	13	7	10	6		- - - - 1	36 20
Miss. W.S.Central	31	34	8	91	_	-	336
			4		_		
Ark.	7	9		3	_	-	25
La. Okla.	ź	2	8	6 5	_	_	78 32
Tex.	17	31	75	77		1	201
Mountain	57	20	15	68	1	1	103
Mont.	207		10	3			4
Idaho	3	1	5	4	-	1	8
Wyo.	3	2	1	1	-		5
Colo.	16	10		25	_		38
N. Mex.	3	7	1	3	_	_	11
Ariz.	21	10	3	19	1	_	21
Utah	7	2	1	4	-	_	8
Nev.	4	7	4	9	_	_	8
Pacific	64	154	121	229	43	22	460
Wash,	10	14	9	19	13	2	71
Oreg.	NN	12	15	17	3	-	63
Calif.	48	122	96	179	25	15	310
Alaska	1	_	2	1	-		3
Hawaii	5	6	NN	13	2	5	13
GU	- 2	-	-	1 6	-	-	- 9
VI	NÁ	NA	NA	NA	NA	NA	NA NA
AS	1970	FRAN	NA	NA	TWA	PAPE	3
CNMI	_		_	-	_		3

<sup>\*</sup> Imported cases include only those resulting from importation from other countries.

TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2001

						Rabi				lubella
Area	Mumps	Pertussis	Plague	Psittacosis	Ofever	Animal	Human	RMSF1	Rubella	Congenital
United States	266	7,580	2	25	26	7.150	1	695	23	3
New England	2	736	_	_	_	760	_	3	-	_ •
Maine	_	22	_	-	-	82	_		_	_
N.H.	_	31	-	name.	-	21	_	1	_	_
Vt.	_	113	_	-	NN	62	_	-	_	
Mass.	2	537	-	Giren.	NN	279	_	2		-
R.I.	_	9	_	-	NN	72	_	_	annex.	_
Conn.		24	_	-	Marie .	244	_	-	-	-
Mid. Atlantic	36	455	-	9	-	1,371	-	33		-
Upstate N.Y.	4	175	-	6	_	781	=======================================	2 2 9	1	-
N.Y. City N.J.	13	59 23	_	-	_	38	-	2	6	_
Pa.	14	198	-	-	NN	200 352	_	9	1	_
E.N. Central	32	985	_	3	1	158	_	20 16	1 2	-
Ohio	1	327	-	-	NN	52		2		1
Ind.	3	116	_	1	NN	15	=	1	-	1
III.	21	194	-	-	1914	24	-	12	2	_
Mich.	5	149	-	-	1	47	_	1	-	_
Wis.	2	199	_	-	-	20	=	-	_	_
W.N. Central	17	609	-	4	6	375	-	69	3	_
Minn.	6	308	-	-	1	47	_	1	-	_
Iowa	1	139	-	3	NN	84	_	2	1	_
Mo.	4	107	-	1	1	40	_	62	1	vitere
N. Dak.	-	11	-	NN	1	42	-	1	_	_
S. Dak.	-	5	_	Management	-	58	_	2	_	_
Nebr.	1	8	-	-	2	4	_	1	-	-
Kans.	5	31	_	-	_	100	-	_	1	_
S. Atlantic	46	493	_	2	3	2,512	-	328	5	1
Del.	-		-	steen.	NN	39	= = = = = = = = = = = = = = = = = = = =	13	-	_
Md.	8	53	_	1	NN	504	-	39	1	-
D.C. Va.	8	272	-	-	NN	500	-	1	Marie .	-
W. Va.	-	6	-	-	rere	502	-	40	-	1
N.C.	5	75	_	-	_	141 571	_	1 105	=	_
S.C.	7	34	_	-	_	144	_	185 31	2	_
Ga.	é	23	_	eleme.	1	402	_	9	-	_
Fla.	8	29	_	1	1	209	_	9	2	_
E.S. Central	9	208		-	3	204	_	121	_	-
Ky.	3	96	-	-	1	30	-	2	-	_
Tenn.	1	70	-	=	2	106	_	86	_	-
Ala.	_	37	NN	comm	-	64	_	18	_	-
Miss.	5	5	_	epone.	NN	4	=	16	_	-
W.S. Central	16	1,528	****	-	1	1,144	_	113	2	_
Ark.	****	958	-	_	NN	32	_	54	-	-
La.	2	12	-	=	1	9	_	2	_	_
Okla.		43	_	_		60	_	57	_	-
Tex.	14	615	_	_	NN	1,043	_		2	_
Mountain	17	1,561	2	_	6	254	_	11	-	-
Mont.	1	54	-	-	-	38	_	1	=	_
ldaho Wyo.	2 2	171	_	_	1	28 28	-	1	_	_
Colo.	3	389	_	Ξ	4	28	=	2 2 1	-	-
N. Mex.	2	137	1	_	_	15	_	1	=	_
Ariz.	2	690	_	_	_	129	-		_	_
Utah	1	78	1	_ _ _ 9	_	15	_	3	_	
Nev.	4	41	-	_	1	1	_	1	_	_
Pacific	93	1,005	-	9	7	372	1	1	2	1
Wash.	2	184	_	_	_	_	_		-	_
Oreg.	NN	57	-	-	_	4	_	1	_	
Calif.	48	706	-	8	7	319	1	-	1	_
Alaska	1	16	-	1	_	49	_	NN	_	=
Hawaii	42	42	_		_		-	_	1	1
GU PR	- 2	-	-	_	=	99	=	=	-	_
VI	-		_	=	-	30	_	_	3	
AS	1	_	_	_	_	NA	_	NA	NA	NA
CNMI	NA	NA				NA		NA	NA	NA

No cases of paralytic poliomyelitis were reported in 2001.
 Rocky Mountain spotted fever.

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2001

	Calc	all and			Streptococcal disease,	Streptococcai	Streptococcus pneumoniae.
Area	NETSS*	PHLIS'	Shige NETSS*	PHLIS	invasive, group A	toxic-shock syndrome	invasive, drug-resistant
United States	40,495	31,675	20,221	10,598	3,750	77	
New England	2,344	2,324	312	288	239	"	2,896 150
Maine N.H.	168	151	6	3	12	_	150
Vt.	166	158	7	4	NN	-	NN
Mass.	1.328	79 1,295	7	6	16		9
R.I.	151	163	208	190	67	1990	NN
Conn.	449	478	60	25 60	15		20
Mid. Atlantic	5,424	5,153	1.508	967	129 687	NN	121
Upstate N.Y.	1,398	1.342	489	131	282	10	188
N.Y. City	1,313	1,482	410	380	166	NN	178
N.J. Pa.	1,174	812	274	227	148	-	NA
E.N. Central	1,539	1,517	335	229	91	10	NN 10
Ohio Ohio	4,981	4,227	4,443	1,897	780	47	206
Ind.	1,335 549	1,240	2,951	1,197	195	17	NN
IH.	1,383	510 1,151	253	66	69	12	206
Mich.	884	839	630 304	374	254	18	_
Wis.	830	487	304	232	211	-	NN
W.N. Central	2,380	2,429	2.112	1.332	51 409	_	NN
Minn.	689	728	496	500		6	160
lowa	335	312	365	291	200	4000	108
Mo.	648	943	321	215	75	4	NN
N. Dak.	73	88	27	41	22	-	11
S. Dak. Nebr.	151	131	716	243	17	_	7
Kans.	170 314	227	111	-	44		28
S. Atlantic	9.681	6.587	76	42	51	2	NN
Del.	96	125	3,439	1,331	640	5	1,582
Md.	809	797	17 163	16	4	-	6
D.C.	81	707	54	104	NN	NN	NN
Va.	1,368	1,138	784	382	22 85		11
W. Va.	183	149	8	10	25	NN	NN
N.C. S.C.	1,386	1,283	356	186	147	NN 5	52 NN
Ga.	915	720	251	124	14	LAIA	292
Fla.	1,721 3,122	1,696	752	465	187	-	434
E.S. Central	2,775	679 2.076	1,054	-44	156		787
Ky.	406	248	1,772	647	123	_	265
Tenn.	706	856	846 123	336	39	-	27
Ala.	748	652	211	127 152	84	-	238
Miss.	915	320	592	32	NN NN	-	NN
W.S. Central	5,052	2.253	3.005	795	322	NN	_
Ark.	928	91	570	154	1	1	291
La. Okia.	832	842	255	238	i	NN	24
Tex.	500	434	147	75	49	1	267 NN
Mountain	2,792	886	2,033	328	271		NN
Mont.		2,102	1,063	775	461	8	50
Idaho	81 146	119	9	-		NN	_
Wyo.	61	54	40	15	7	2	NN
Colo.	591	601	245	5 254	12	-	11
N. Mex.	280	242	122	254	161	2	_
Ariz.	741	658	505	302	91 187	2	37
Utah	229	222	63	62	3	2	NN
Nev.	202	206	71	50	_	-	-
Wash.	5,527	4,524	2,567	2,566	89	_	2
Oreg.	681	747	236	236	_	_	NN
Calif.	281 4.159	319	116	113	-	_	ININ
Alaska	4, 159	3,040	2,149	2,149	NN	NN	NN
Hawaii	356	373	7 59	7 61	89	- Second	NN 4
	0.0						-
GU PR	24	-	50	-	1		_
GU PR VI	972	NA.	21	_	NN	-	NN
PR		NA		NA		NA NA	NN NA

National Electronic Telecommunications System for Surveillance.
 Public Health Laboratory Information System. Totals reported to the National Center for Infectious Diseases as of April 26, 2002.

TABLE 2. (Continued) Reported cases of notifiable diseases, by geographic division and area — United States, 2001

	Streptococcus					
	pneumoniae,		Syphilis*			
Aree	<pre>invasive &lt;5 years</pre>	All stages	Congenital (age <1 yr)	Primary & secondary	Tetanus	Toxic-shock
United States	498	32.221	441	6,103		-
New England	52	694	4	72	37	127
Maine	1	16	_	1	_	. 4
N.H. Vt.	NN	20	_	i	_	1
Mass.	NN	8	_	3	-	
R.I.	6	446 39	2	46		3
Conn.	44	165	2	9	-	_
Mid. Atlantic	123	5,370	66	12 541	3	NN
Upstate N.Y.	123	304	5	22		21
N.Y. City	NN	3,300	28	282	1	7
N.J. Pa.	NN	1,040	32	137		4
E.N. Central	470	726	4	100	1	10
Ohio	178	3,645	60	1,091	2	25
Ind.	107	297 529	1	81	-	B
III.	71	1.541	13	151	_	1
Mich.	NN	1,147	40	409	2	4
Wis.	-	131	2	428 22	-	10
W.N. Central	70	457	7	100	2	2
Minn.	58	132	_	33		22
lowa	NN	44	- Gines	5	_	9
Mo. N. Dak.		174	5	26	value .	4
S. Dak.	12	2	-	-	_	_
Nebr.	NN	16	-	1	_	_
Kans.	NN	88	2	10	2 7	6
S. Atlantic	14	9.240	98	25 2.008	2	2
Del.	NN	79	30	2,008		17
Md.	NN	937	4	266	1	A.D.
D.C.	4	459	2	43	1	NN
Va. W. Va.	NN	524	2	102	-	1 2
N.C.	10 NN	2 422		5	1	_
S.C.	NN	1,422 913	19	445	2	7
Ga.	NN	1,985	16 18	235	rome	3
Fla.	NN	2.914	37	414 484	_	4
E.S. Central	_	3.042	30	661	3 2	_
Ky.	NN	191	1	48	2	3
Tenn.	NN	1,478	14	331	1	2
Ala. Miss.	NN	720	6	142		1
W.S. Central	61	653	9	140	1	NN
Ark.	NN	4,980	84	760	4	1
La.	61	239 793	6	49	white .	_
Okla.	-	288	5	173	-	_
Tex.		3,660	73	60 478	1	1
Mountain	-	1,471	30	243	3	-
Mont.	-	_	_	240	2	8
Idaho	NN	11	Nings.	1	_	_
Wyo. Colo.	- Company	4	_	1	-	
N. Mex.	-	149	1	23	1	7
Ariz.	NN	73	-	19	_	1
Utah	-	1,147	29	180	1	_
Nev.	_	62	_	11 8	_	
Pacific	_	3,322	59	627	15	=
Wash.	NN	174	-	57	15	26
Oreg.	NN	48	-	13	_	NN
Calif. Alaska	NN	3,050	59	545	15	26
Hawaii	=	9 41	=	12	_	NN
GU	_	30	1	12		
PR VI	N	1,267	21	244	_	_
AS	NA	9	1	_	NA	NA
CNMI	military.	_	_	-		

<sup>\*</sup>Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002.

TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2001

Area	Trichinosis	Tuberculosis'	Tularemia	Typhoid fever	Varicella¹ (chickenpox
United States	22	15,989	129	368	22,536
New England	_	498	7	20	3,096
Maine	-	20	_	1	146
N.H.	-	20	1	2	NN
Vt.		7	_		149
Mass.	-	270	6	12	1,093
R.I.	-	60	-	_	9
Conn.	-	121	-	5	1,699
Mid. Atlantic	3	2,556	2	113	man.
Upstate N.Y.	-	415	1	15	NN
N.Y.City	2	1,261	enain	49	NN
N.J.	1	530	1	38	NN
Pa.	_	350	-	11	NN
E.N. Central	2	1,544	17	34	10,474
Ohio	-	306	. 1	5	1,653
ind.	_	115	NN	2	NN
III.	1	707	14	18	0.000
Mich. Wis.	1	330	2	5	6,600
W.N. Central	2	86 561	47	16	2,221
			47		
Minn. Iowa	-	239	NN	7	NN
Mo.	2	157	27	9	NN
N. Dak.	_	6	1	9	3
S. Dak.	-	13	7	_	NN
Nebr.	_	40	5	_	NN
Kans.	_	63	7	_	NN
S. Atlantic	=	3,088	4	52	2,100
Del.	-	33	1	1	NN
Md.		262	1	10	NN
D.C.	_	74	_	_	73
Va.	_	306	NN	15	540
W. Va.	_	32	-	_	1,421
N.C.	-	398	1	3	NN
S.C.	_	263		-	66
Ga.	NN	575	1	12	NN
Fla.	_	1,145	_	11	NN
E.S. Central	-	894	11	1	_
Ky.	NN	152	4	_	NN
Tenn.	-	313	6	1	NN
Ala.	_	265	1	_	NN
Miss.	_	154	-	_	NN
W.S. Central	-	2,293	16	20	5,800
Ark.	NN	162	9	-	NN
La.	-	294	_	-	99
Okla.	-	194	7	1	
Tex. Mountain	1	1,643	NN	19	5,741
	1	644	17	11	1,048
Mont.		20	2	2	NN
Idaho	-	9	_	_	3
Wyo. Colo.	1	3 138	7	-	NN
N. Mex.	_		2	1	NN
Ariz.	_	54 289	1	2	NN 951
Utah	_	35	4	2	92
Nev.	_	96	_	4	2
Pacific	14	3.921	8	101	2
Wash.	-	261	5	7	NN
Oreg.	-	123	1	8	PAPA
Calif.	13	3,332	i	82	NN
Alaska	1	54	i	1	NN
Hawaii		151		3	-
GU	22	63	-	3	60
PR	NA	121	AIA	910	2,187
AS	NA	NA	NA	NA	NA
CNMI	-	58	_	-	173

No cases of yellow fever were reported in 2001.
 Totals reported to the Division of Tuberculosis Elimination, NCHSTP, as of March 29, 2002.
 Although not nationally notifiable, reporting is recommended by the Council of State and Territorial Epidemiologists.

TABLE 3. Reported cases and incidence rates of notifiable diseases,\* by age group — United States, 2001

		4	SIVE	-		1	2112111		10000		200		10 51 513	1	200 018	-8-
Disease	Total	No.	(Rate)	No.	(Rate)	No.	(Rate)	No.	(Rate)	No.	(Rate)	No.	(Rate)	No.	(Rate)	stated
AIDS!	41,868	48	(1.29)	88	(0.38)	138	(0.34)	1,721	(4.39)	20,031	(32.00)	19,033	(22.55)	637	(2.39)	1
Anthrax	N	-	(0.03)	1	(00.0)	1	(00.00)	1	(00.00)	60	(0.01)	11	(0.01)	64	(0.01)	1
Botulism, foodborne	8	M)	(0.13)	64	(0.01)	-	(00.00)	24	(0.01)	M	(0.01)	16	(0.02)	60	(0.05)	1
Infant	80	Si	(2.42)	4	(0.03)	-	(00.00)		(0.00)	-	(0.00)	-	(0.00)	ı	(00.0)	1
Other (includes wound)	92	1	(0.00)	1	(00.00)	1	(00.00)	-	(0.00)	in.	(0.01)	13	(0.02)	1	(00.00)	1
Brucellosis	136	-	(0.00)	8	(0.09)	8	(0.05)	8	(0.05)	31	(0.05)	98	(0.04)	10	(0.07)	2
Chlamydia <sup>44</sup>	783,242	AN	NA	NA	NA	NA	NA	569,254	(1462.78)	172,238	(275.15)	17,486	(20.72)	911	(2.60)	6,410
Cholera	69	١	(0.00)	+	(0.01)	-	(00.00)	-	(0.00)	1	(0.00)	-	(0.00)	-	(00.0)	1
Coccidioidomycosis**	3,922	9	(0.27)	92	(0.12)	167	(0.42)	433	(1.14)	36	(1.58)	1,563	(1.90)	712	(5.08)	88
Cryptosporidiosis	3,786	8	(2.58)	989	(4.53)	780	(1.92)	375	(0.96)	006	(1.44)	717	(0.85)	170	(0.49)	8
Cyclosporiasis**	147	-	(0.03)	-	(0.01)	-	(0.00)	83	(0.06)	M	(0.06)	8	(0.06)	8	(0.09)	6
Diphtheria	~	1	(00.00)	1	(0.00)	1	(0.00)	-	(00.00)	1	(0.00)		(0.00)	-	(00.00)	1
Ehrlichiosis,																
Human granulocytic	192	•	(0.03)	69	(0.03)	18	(0.04)	74	(0.04)	19	(0.06)	117	(0.14)	6	(0.19)	9
Human monocytic	75	-	(0.03)	1	(0.00)	1	(0.02)	80	(0.05)	8	(0.04)	8	(0.08)	19	(0.10)	4
Encephalitis, California																
serogroup viral	128	10	(0.16)	92	(0.12)	8	(0.22)	4	(0.01)	4	(0.01)	4	(0.00)	e4	(0.01)	1
Eastern equine	œ	-	(0.03)	-	(0.01)	64	(00.00)	1	(00.00)	8	(00.00)	-	(0.00)	4	(0.01)	1
St. Louis	R	1	(00.00)	1	(00.00)	(*)	(0.01)	Φ	(0.02)	11	(0.02)	粮	(0.05)	7	(0.04)	1
Escherichia coli,																
enterohemorrhagic (EHEC)																
O157:H7	3,287	16	(1.97)	647	(4.21)	790	(1.95)	464	(1.18)	364	(0.58)	280	(0.70)	307	(0.88)	41
EHEC, serogroup non-0157	171	o	(0.77)	18	(0.74)	4	(0.34)	163	(0.20)	21	(0.11)	17	(90.0)	19	(0.16)	
EHEC, not serogrouped	8	g-	(0.24)	0	(0.18)	0	(0.06)	-	(0.02)	-	(0.01)	9	(0.06)	4	(0.09)	1
Sonorrhea®	361,705	Z A	AN	NA N	AN	AN	AN	215,672	(550.41)	109,604	(175.09)	26,122	(30.95)	837	(5.38)	2,067
Haemophilus influenzae,																
invasive disease	1,587	196	(6.15)	129	(0.84)	8	(0.17)	9	(0.16)	18	(0.22)	8	(0.43)	62	(1.77)	16
Hansen disease (leprosy)	R	-	(0.00)	ŧ	(00.00)	-	(00.00)	7	(0.02)	10	(0.03)	17	(0.02)	11	(0.03)	24
dantavirus pulmonary																
syndrome	00	ı	(0.00)	1	(0.00)	04	(00.00)	60	(0.01)	gini	(0.00)	-	(00.00)	1	(0.00)	1
Hemolytic uremic syndrome,																
postddiarrheal	202	4	(0.11)	18	(0.55)	R	(0.19)	11	(0.03)	m	(0.00)	13	(0.05)	m	(0.03)	1
Hepatitis A, acute	10,609	18	(0.92)	366	(2.39)	1,531	(3.73)	1,491	(3.81)	3,337	(6.33)	2,850	(3.38)	834	(2.38)	163
Hepatitis B, acute	7,843	17	(0.45)	17	(0.11)	48	(0.12)	1,140	(2.91)	3,241	(5.18)	2,838	(3.36)	366	(1.04)	171
Hepatitis C; non-A, non-B	3,976	00	(0.21)	13	(0.08)	Ø	(0.06)	302	(0.52)	983	(1.57)	2,379	(2.82)	122	(0.65)	138
-egionellosis	1,168	m	(0.08)	E4	(0.01)	60	(0.02)	7	(0.02)	128	(0.20)	069	(0.70)	421	(1.20)	6
isteriosis	613	2	(1.68)	10	(0.07)	60	(0.02)	28	(0.06)	88	(0.11)	145	(0.17)	388	(0.83)	S
yme disease	17,029	42	(1.10)	983	(6.46)	3,486	(8.51)	1,560	(3.96)	2,457	(3.93)	6,054	(7.17)	2,183	(6.24)	254
Malaria	1,544	00	(0.21)	8	(0.44)	164	(0.40)	286	(0.72)	480	(87.0)	466	(0.54)	2	10 161	22
								-	-	1000	10.00	2	10:01	9	0	67

TABLE 3. (Continued) Reported cases and incidence rates of notifiable diseases,\* by age group — United States, 2001

		V	1 yr		-4 yrs		5-14 yrs	15-2	15-24 yrs	25-32	yrs	40	-64 yrs	AI	55 yrs	Age not
Disease	Total	No.	No. (Rate)	1-	do. (Rate)	No.	(Rate)	No.	(Rate)	No. (Rat	(Rate)	No.	o. (Rate)	No.	o. (Rate)	stated
Meningococcal disease	2,333	399	(6.96)	8	(2.16)	272	(0.66)	523	(1.33)	223	(0.36)	405	(0.48)	304	(0.87)	0
Mumps	266	8	(0.09)	4	(0.31)	83	(0.20)	28	(0.06)	48	(0.08)	8	(0.06)	9	(0.05)	7
Pertussis	7,580	1,886	(49.56)	176	(6.32)	2,077	(90.9)	1,157	(5.36)	98	(1.04)	717	(0.85)	86	(0.27)	8
Plague	2	-	(00.00)	1	(0.00)	-	(0.00)	-	(00:00)	1	(0.00)	1	(0.00)	1	(0.00)	1
Psittacosis	163	1	(00.00)	1	(00.00)	8	(0.00)	2	(0.01)	an	(0.01)	9	(0.01)	m	(0.01)	হণ্ড
Q fever**	8	1	(0.00)	1	(0.00)	1	(0.00)	-	(0.00)	100	(0.01)	89	(0.03)	~	(0.01)	1
Rabies, human	-	1	(00.00)	1	(00.0)	1	(0.00)	1	(0.00)	-	(0.00)	1	(0.00)	-	(00.00)	1
Rocky Mountain spotted																
fever	988	1	(00.00)	6	(0.12)	88	(0.20)	88	(0.22)	152	(0.24)	246	(0.29)	102	(0.29)	œ
Rubella	R	-	(0.03)	1	(0.01)	2	(0.00)	69	(0.01)	11	(0.03)	6	(0.00)	24	(0.01)	Î
Salmonellosis	40,495	4,719	(124.00)	6,576	(42.78)	5,096	(12.41)	3,508	(8.95)	5,368	(8.58)	6,670	(7.90)	3,601	(10.29)	4,967
Shigellosis	20,221	406	(10.67)	6,172	(40.16)	5,318	(12.95)	1,299	(3.32)	2,628	(4.20)	1,562	(1.85)	388	(1.02)	2,478
Streptococcal disease,																
invasive, group A	3,750	106	(2.79)	188	(1.23)	288	(0.70)	165	(0.42)	5963	(0.88)	1,252	(1.48)	1,174	(3.36)	N
Streptococcal toxic-shock																
syndrome	H	1	(0.00)	w	(0.03)	7	(0.02)	-	(00.0)	12	(0.02)	20	(0.03)	R	(0.02)	-
Streptococcus pneumoniae,																
invasive, drug-resistant**	2,896	208	(5.47)	482	(3.14)	128	(0.31)	20	(0.20)	243	(0.39)	745	(0.88)	961	(2.72)	61
Streptococcus pneumoniae,																
invasive, <5 yrs	496	15	(16.89)	373	(12.38)	1	(00.0)	1	(0.00)	í	(0.00)	ı	(00.0)	1	(00.00)	1
Syphilis																
primary and secondary*	6,103	ZA	AN	Y X	NA	NA	NA	1,223	(3.12)	2,986	(4.77)	1,806	(2.14)	3	(0.18)	1
Tetanus	37	-	(0.03)	1	(0.00)	-	(00.0)	en	(0.01)	80	(0.01)	15	(0.02)	10	(0.03)	i
Toxic-shock syndrome	127	-	(0.00)	9	(0.04)	2	(0.09)	12	(0.07)	8	(0.05)	33	(0.04)	40	(0.01)	1
Trichinosis	22	1	(0.00)	1	(0.00)	04	(00.00)	1	(0.00)	7	(0.01)	10	(0.01)	3	(0.01)	1
Tuberculosis"	15,989	16	(2.55)	447	(2.91)	387	(0.94)	1,595	(4.07)	4,129	(09.9)	6,035	(7.15)	3,295	(9.42)	4
Tularemia	120	-	(0.03)	9	(0.04)	Ħ	(90.0)	15	(0.04)	21	(0.04)	ą	(0.06)	16	(0.04)	4
Typhoid fever	368	so.	(0.13)	89	(0.31)	88	(0.17)	25	(0.16)	105	(0.17)	8	(0.07)	20	(0.03)	4G

No cases of paralytic poliomyelitis, western equine encephalitis, or yellow fever were reported in 2001

Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention—Surveillance and Epidemiology, National

Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2001.

Age-related data are collected on aggregate forms different from those used for the number of reported cases. Thus, total cases reported here will differ slightly from other tables. Cases among persons aged <15 years are not shown because some might not be caused by sexual transmission; these cases are included in the totals. Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002. Chlamydia refers to genital infections caused by C. trachomatis.

\*\* Notifiable in <40 states.

" Totals reported to the Division of Tuberculosis Elimination, NCHSTP, as of March 29, 2002.

TABLE 4. Reported cases and incidence rates of notifiable diseases,\* by sex — United States, 2001

				200000	
osis**  s wound)  s wound) s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  s wound) s wound) s wound) s wound) s wound) s wound) s wound) s woun		-	2	Hatel	etatod
osis**  s wound)  s wound) s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  s wound)	-	7 40)	10 826	(755)	
s wound)  s wound)  s wound)  s wound)  s wound)  s wound)  136  136  136  136  137  138  24  142  142  142  142  142  143  143		100	010	200	
swound)  swound)  swound)  136  137  136  147  157  157  157  157  157  157  157	13 (	(10.0	OL.	(10.0)	1
s wound)  s wound)  s wound)  136  136  1378  24  1378242  NA (  33,242  147  25  147  26  147  26  147  27  20  20  20  20  20  20  20  20  2	15 (	0.01)	18	(10.0)	9
s wound)  s wound)  s wound)  136  136  137  138  142  143  147  147  147  147  148  148  149  149  140  140  140  140  140  140	54 ( 0	0.04)	43	(0.03)	1
136 75 (1989) 38 24 (1989) 39 24 (1989) 4 3,922 2,380 (1989) 4 1 1 153 (1989) 4 1 1 153 (1989) 5 1 1 159 (1999) 6 1 1 159 (1999) 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 ( 0	0.01)	80	(0.01)	1
38 24 (NA (193242)	75 ( 0	0.05)	58	(0.04)	e
osis**  1	24 ( 0	0.02)	14	(0.01)	1
osis**  is 3922 2,380 (  is 1,785 2,002 (  in an granulocytic** 261 153 (  cytic** 261 153 (  ifornia serogroup viral 128 75 (  agic (EHEC) O157:H7 3,287 1,592 (  inp non-O157 3,287 1,593 (  inp non-O157 3,397 1,108 1,1168 1,16	-	AN	623.926	(435.19)	2,095
osis**  is 3,922 2,380 (  147 69 (  147 69 (  147 69 (  147 69 (  148 75 (  148 75 (  149 75 (	-	00.0	2	(00.0)	1
and granulocytic**  147  147  147  147  147  147  147  1	-	1771	1.534	(1,10)	00
nan granulocytic** 147 69 69 64 69 69 69 69 69 69 69 69 69 69 69 69 69		1.45)	1.743	(1.22)	40
nan granulocytic**  142  142  148  148  149  149  149  149  149  149	-	0.05)	76	(0.02)	2
nan granulocytic** 261 153 ( cytic*** 142 86 ( cytic*** 142 86 ( cytic*** 153 ( agic (EHEC) O157:H7 3,287 1,592 ( agic (EHEC) O157:H7 3,287 1,58 ( agic (EHEC) O157:H7 3,287 1,58 ( agic (EHEC) O157:H7 3,287 ( agic	-	(000	-	(000)	1
ifornia serogroup viral 128 75 ( independent of the serogrouped 120 ( independent of the serogrouped 120 ( ifornia serogroup viral 120 ( ifornia	-	0.11)	107	(0.02)	-
agic (EHEC) O157:H7 3.287 1,592 ( approved 361,705 177,213 (12 (leprosy) 8 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-	0 06)	52	(0.04)	4
agic (EHEC) O157:H7 3,287 1,592 ( agic (EHEC) O157:H7 3,287 1,592 ( agrouped 361,705 177,213 (12 (leprosy) 8 5 (leprosy) 8		0.05)	52	(0.04)	-
agic (EHEC) O157:H7 3,287 1,592 ( up non-O157 171 3,287 1,592 ( up non-O157 20 83 ( upenzae, invasive disease 1,597 768 ( (leproxy) (leproxy) 79 3,4 ( c syndrome postdiarrheal 10,609 6,836 ( e 7,843 4,879 ( e 7,843 6,943 (		1000		(000)	. 1
agic (EHEC) O157:H7 3,287 1,592 ( up non-O157 20 83 ( 20 841,705 177,213 (15 ( 16prosy) 8 5 ( 16prosy) 8 79 34 ( 16prosy) 8 5 ( 16prosy) 8 6 ( 16prosy) 8 6 ( 16prosy) 8 7 ( 17prosy) 8 7	000	000	0 0	1000	c
agic (EHEC) O157:H7 3,287 1,592 (  up non-O157 20 83 (  learzae, invasive disease 1,597 768 ( (leprosy) 8 5 ( leprosy) 8 5 ( e syndrome, postdiarrheal 10,609 6,838 ( e A, non-B 1,168 7,168 ( 1,168 7,843 4,879 ( 1,168 7,143 ( 1,168 7,15 ( 1,168 7,15 ( 1,169 7,15 ( 1,168 7,15 ( 1,169 7,15 ( 1	39 (	1.03)	38	(0.03)	7
3,287 1,592 ( 171 83 ( 20 0 7 83 ( 1,597 768 ( 79 202 69 ( 10,609 6,836 ( 7,843 4,879 ( 3,976 2,403 ( 17,029 9,044 (					
171 83 ( 361,705 177,213 (15,97 768 ( 7,597 34 ( 8 5 202 69 ( 10,609 6,836 ( 7,843 4,879 ( 3,976 2,403 ( 17,029 9,044 (	_	1.15)	1,666	(1.16)	53
20 8 ( 1,597 72,13 (1,1597 768 ( 79 8 5 ( 8 5 ( 10,609 6,836 ( 7,843 4,879 ( 7,843 4,879 ( 1,168 7,15 ( 17,029 9,044 (	-	0.19)	88	(0.19)	1
361,705 177,213 (15) 1,597 768 (2) 202 69 (6) 10,609 6,836 (7),843 4,879 (2) 3,976 2,403 (1,168 7) 17,029 9,044 (17,029	0 8	0.05)	12	(0.0)	1
1,597 768 ( 79 34 ( 8 5 202 69 ( 10,609 6,836 ( 7,843 4,879 ( 3,976 2,403 ( 1,168 715 ( 613 280 (	-	28.37)	183,897	(128.27)	595
79 34 ( 8 5 5 ( 202 69 ( 10,609 6,836 ( 7,843 4,879 ( 3,976 2,403 ( 1,168 715 ( 613 280 (	-	0.56)	811	(0.57)	18
202 69 (10,609 6,836 (7,843 4,879 (3,976 1,168 7,15 (17,029 1,108 7,15 (17,029 1,044 (17,029 1,044 (17,029 1,044 (17,029 1,044 (17,029	-	0.02)	21	(0.01)	24
202 69 (10,609 6,836 (7,843 4,879 (3,976 2,403 (1,168 715 (17,029 9,044 (1,108 17,029 1,108 (1,108 17,029 1,108 (1,108 17,029 1,108 (1,108 17,029 1,108 (1,108 17,029 (1,1	5 ( 0	0.00)	2	(00.0)	-
10,609 6,836 ( 7,843 4,879 ( 3,976 2,403 ( 1,168 715 ( 613 280 (	_	0.05)	133	(60.0)	1
7,843 4,879 ( 3,976 2,403 ( 1,168 715 ( 613 280 (	-	4.95)	3,709	( 2.59)	64
3,976 2,403 ( 1,168 715 ( 613 280 ( 17,029 9,044 (	_	3.53)	2,903	(2.02)	61
1,168 715 (613 280 (717,029 9,044 (	_	1.74)	1,518	(1.06)	92
17.029 9.044	-	0.52)	452	(0.32)	-
17.029 9.044 (	_	0.20)	323	(0.23)	10
	-	6.55)	7,875	( 5.49)	110
1,544 1,023 (	-	0.74)	498	(0.35)	23
116 52 (	_	0.04)	63	(0.04)	-

TABLE 4. (Continued) Reported cases and incidence rates of notifiable diseases,\* by sex — United States, 2001

		Male	9	Female	ale	Sex
Disease	Total	No.	(Rate)	No.	(Rate)	stated
Meningococcal disease	2,333	1,177	( 0.85)	1,150 (	0.80)	9
Mumps	266	132	(0.10)	126 (	(60.0	80
Pertussis	7,580	3,499	(2.53)	4,072 (	2.84)	6
Plaque	2	2	(00.0)	0	0.00	1
Psittacosis	25	7	(10.0)	18 (	0.01)	1
O fever**	26	23	(0.05)	3	0.00	1
Rabies, human	-	-	(00.0)	0	0.00	1
Rocky Mountain spotted fever	969	411	(0.30)	279 (	0.19)	2
Rubella	23	7	(0.01)	16 (	0.01)	1
Salmonellosis	40,495	17,503	(12.68)	18,280 (	12.75)	4,712
Shigellosis	20,221	8,454	(6.12)	9,250 (	6.45)	2,517
Streptococcal disease, invasive, group A**	3,750	1,954	(1.42)	1,784 (	1.24)	12
Streptococcal toxic-shock syndrome**	77	35	(0.03)	42 (	0.03)	1
Streptococcus pneumoniae,						
invasive, drug-resistant**	2,896	1,466	(1.06)	1,412 (	(86.0	18
Streptococcus pneumoniae,						
invasive , <5 vrs**	498	273	(1.00)	225 (	0.78)	I
Syphilis, primary and secondary <sup>8</sup>	6,103	4,131	( 2.99)	1,967	1.37)	S
Tetanus	37	20	(0.01)	17 (	0.01)	1
Toxic-shock syndrome	127	41	(0.03)	98	0.06)	1
	22	17	(0.01)	9	0.00	1
Tuberculosis <sup>↑↑</sup>	15,989	9,943	(7.20)	6,045 (	4.22)	-
Tularemia	129	84	(90.0)	45 (	0.03)	1
Typhoid fever	368	203	(0.15)	158 (	0.11)	7

Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention—Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), No cases of western equine encephalitis, paralytic poliomyelitis, or yellow fever were reported in 2001. through December 31, 2001.

Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002.

Chlamydia refers to genital infections caused by C. trachomatis.
\*\* Notifiable in <40 states.</p>

" Totals reported to the Division of Tuberculosis Elimination, NCHSTP, as of March 29, 2002.

TABLE 5. Reported cases and incidence rates of notifiable diseases,\* by race — United States, 2001

		P Pu	American Indian or	4	Asian						Race
		Alask	Alaska Native	or Pacif	or Pacific Islander		Black	3	White	Other	stated
Disease	Total	No	(Rate)	No.	(Rate)	No.	(Rate)	No.	(Rate)	No.	No.
AIDS	41,868	194	(01.6)	418	(3.80)	21,007	(60.45)	13,230	( 6.67)	0	7,019
Botulism, foodborne	39	10	(0.47)	0	(00.0)	15	(0.04)	10	(0.01)	0	4
Infant	97	8	0.14)	7	(90.0)	9	(0.05)	43	(0.05)	0	38
Brucellosis	136	-	(0.02)	0	(00.0)	0	(00.0)	78	(0.04)	0	57
**	783.242	9.705	(454.99)	10.417	(94.80)	258,930	(745.06)	161,671	(81.55)	0	342,519
VCOSis <sup>††</sup>	3.922	16	0.76)	55	(0.50)	81	(0.24)	629	(0.34)	19	3,092
	3,785	18	0.84)	30	(0.27)	301	(0.87)	2,026	(1.02)	29	1,381
	147	-	0.05)	2	(0.02)	2	(0.01)	96	(0.02)	0	43
Ehrlichiosis, human											
granulocytic	261	3	0.14)	-	(0.01)	0	(00.0)	162	(0.08)	0	98
Human monocytic	142	8	0.14)	0	(00.0)	m	(0.01)	102	(0.02)	0	34
Encephalitis, California											
serogroup viral	128	es	0.14)	0	(00.0)		(0.05)	97	(0.02)	0	22
St.Louis	79	0	0.00)	0	(00.0)	. 33	(60.0)	45	(0.05)	0	1
Escherichia coli,											
enterohemorrhagic (EHEC)											
0157:H7	3,287	31	1.45)	33	(0.30)	100	(0.29)	2,128	(1.07)	11	984
EHEC, serogroup non-0157	171	2	0.32)	8	(0.16)	0	(00.0)	102	(0.14)	0	64
Sonorrhea** 3	361,705	1,817	85.18)	2,210	(20.11)	205,956	(592.63)	43,605	(22.00)	0	108,117
Haemophilus influenzae,											
invasive disease	1,597	45	2.11)	26	(0.24)	188	(0.54)	962	(0.49)	4	372
Hansen disease (leprosy)	79	-	0.02)	18	(0.16)	9	(0.05)	10	(0.01)	2	42
demolytic uremic syndrome,											
postdiarrheal	202	2	0.23)	9	(0.02)	10	(0.03)	135	(0.0)	-	45
Hepatitis A, acute	10,609	129	(90.9	234	(2.13)	868	(2.58)	5,557	(2.80)	139	3,652
Hepatitis B, acute	7,843	73 (	3.42)	335	(3.05)	1,460	(4.20)	3,025	(1.53)	51	2,899
Hepatitis C; non-A, non-B	3,976	77 (	3.61)	45	(0.41)	253	(0.73)	1,111	(0.56)	m	2,487
egionellosis	1,168	18	0.84)	14	(0.13)	154	0.44)	780	(0.39)	4	198
isteriosis	613	8	0.38)	30	(0.27)	55	0.16)	352	(0.18)	2	166
yme disease	17,029	663	31.08)	91	(0.83)	170	0.49)	11,450	(82.78)	47	4,608
Malaria	1,544	7 (	0.33)	82	(0.75)	673	1.94)	331	(0.17)	27	424
Veasies	116	-	0.05)	46	(0.42)	m	0.01)	46	(0.05)	-	19
Acaimpoocoop discoop	9 999	21	1000	An	10361	333	0 951	1 474	1074)	0	AEG

TABLE 5. (*Continued*) Reported cases and incidence rates of notifiable diseases,\* by race — United States, 2001

		Am	American								Race
		lmd :	Indian or	4 .	Asian			•			not
	Tatel	Alask	Alaska Native	or Paci	or Pacific Islander		Black	A	White	other	Stated
Disease	10191	NO.	(ugte)	NO.	(mate)	NO.	(nate)	NO.	(ugge)	NO.	NO.
Mumps	266	4	(0.19)	48	(0.44)	14	(0.04)	133	(0.0)	4	63
Pertussis	7,580	101	(4.74)	93	(0.82)	515	(1.48)	5,564	(2.81)	18	1,289
Psittacosis	25	0	(00.0)	0	(00.0)	4	(0.01)	12	(0.01)	-	00
Q fever**	26	0	(00.0)	-	(0.01)	-	(00.0)	10	(0.01)	0	14
Rocky Mountain spotted fever	er 695	16	(0.75)	2	(0.05)	46	(0.13)	534	(0.27)	0	97
Salmonellosis	40,495	460	(21.57)	645	(5.87)	3,257	( 9.37)	19,034	(09.60)	105	16,994
Shigellosis	20,221	649	(30.43)	144	(1.31)	4,140	(11.91)	7,438	(3.75)	120	7,730
Streptococcal disease,											
invasive, group A	3,750	112	(5.25)	57	(0.52)	493	(1.42)	2,202	(11.11)	10	876
Streptococcal toxic-shock											
syndrome	77	0	(00.0)	0	(00.0)	15	(0.04)	49	(0.02)	_	12
Streptococcus pneumoniae,											
invasive, drug-resistant"	2,896	9	(0.28)	14	(0.13)	626	(1.80)	1,753	(0.88)	00	489
Streptococcus pneumoniae,											
invasive, <5 yrs**	498	e	(1.36)	വ	(0.26)	116	(1.50)	270	(0.66)	7	97
Syphilis, primary and											
secondary**	6,103	87	(4.08)	53	(0.48)	3,680	(10.59)	1,329	(0.67)	0	954
Tetanus	37	-	(0.02)	2	(0.05)	-	(00.0)	22	(0.01)	0	11
Toxic-shock syndrome	127	0	(00.0)	മ	(0.02)	6	(0.03)	85	(0.04)	0	28
Tuberculosis**	15,989	247	(11.58)	3,587	(32.65)	4,891	(14.07)	7,209	(3.64)	0	55
Tularemia	129	80	(0.38)	2	(0.05)	7	(0.01)	80	(0.04)	0	37
Typhoid fever	368	4	(0.19)	97	(0.88)	30	(0.00)	53	(0.03)	18	166

No cases of paralytic poliomyelitis, western equine encephalitis, or yellow fever were reported in 2001. Diseases with <25 reported cases are not included in this table.

Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention—Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 2001.

Includes the following cases originally reported as Hispanic: 6,962 for AIDS; 107,470 for chlamydia; 19,780 for gonorrhea; and 724 for

syphilis, primary and secondary.

Chlamydia refers to genital infections caused by C. trachomatis.

In addition to data collected through the National Electronic Telecommunications System for Surveillance (NETSS), some ethnicity data are collected on aggregate forms different from those used for reported cases. Thus, the total number of cases reported here can Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002. differ slightly from others.

" Notifiable in <40 states.

\* Totals reported to the Division of Tuberculosis Elimination, NCHSTP, as of March 29, 2002.

TABLE 6. Reported cases and incidence rates of notifiable diseases,\* by ethnicity — United States, 2001

		Hispanic	inic	Non-	Non-Hispanic	not
Disease	Total	No.	(Rate)	No.	(Rate)	stated
AIDS*	41,868	6,962	9.72)	34,237	(13.91)	699
Botulism, foodborne	39	3	0.01)	18	(10.0)	18
Infant	97	13	0.04)	40	(0.05)	44
Brucellosis	136	93	0.26)	19	(0.01)	24
Chlamydia	783,242	107,470	(304.40)	440,723	(179.07)	235,049
Coccidioidomycosis**	3.922	635	4.51)	682	(1.54)	2,602
Cryptosporidiosis	3,785	185	0.52)	1,704	(69.0)	1,896
Cyclosporiasis**	147	9	0.03)	75	(0.04)	99
Ebrlichiosis, human granufocytic	261	4	0.01)	71	(0.03)	169
Human monocytic	142	-	0.00)	06	(0.04)	51
Encephalitis. California serogroup viral	128	2	0.01)	51	(0.05)	75
St. Louis	79	2 (	0.01)	8	(00.0)	74
Escherichia coli, enterohemorrhagic (EHEC)						
O157:H7	3,287	129	0.37)	1,689	(0.72)	1,469
EHEC. serogroup non-0157	171	0	0.00)	0	(00.0)	171
Gonorrhea	361,705	19,780	56.02)	253,588	(103.04)	88,337
Haemophilus influenzae, invasive disease	1,597	101	0.29)	177	(0.31)	725
Hansen disease (leprosv)	79	22 (	0.07)	27	(10.0)	30
Hemolytic uremic syndrome, postdiarrheal	202	19	0.06)	107	(0.00)	73
Hepatitis A. acute	10,609	1,816	5.14)	4,607	(1.87)	4,186
Hepatitis B. acute	7,843	657	1.86)	3,698	(1.50)	3,488
Hepatitis C: non-A. non-B	3,940	123	0.38)	1,324	(0.58)	2,464
Legionellosis	1,168	25 (	0.01)	701	(0.29)	442
isteriosis	613	49 (	0.14)	312	(0.13)	252
vme disease	17,029	217 (	0.61)	7,518	(3.05)	9,294
Malaria	1,544	154 (	0.44)	815	(0.33)	575
Measles	116	6	0.03)	88	(0.04)	19
Meningococcal disease	2,333	233 (	0.66)	1,357	(0.55)	743
Mumps	266	49 (	0.14)	146	(90.0)	71
Pertussis	7,580	1,059	3.00)	5,075	( 2.06)	1,446

[ABLE 6. (Continued) Reported cases and incidence rates of notifiable diseases, \* by ethnicity — United States, 2001

						Ethnicity
		SIL	Hispanic	-uon	Non-mispanic	1011
Disease	lotal	No.	(Mate)	NO.	(Mate)	stated
Psittacosis	25	2	(0.01)	16	(0.01)	1
Q fever**	26	0	(00.0)	11	(0.01)	15
Rocky Mountain spotted fever	695	10	(0.03)	496	(0.20)	189
Salmonellosis	40,495	2,711	(7.68)	14,575	(5.92)	23,209
Shigellosis	20,221	2,467	(6.99)	6,014	(2.44)	11,740
Streptococcal disease, invasive group A	3,750	309	(1.29)	1,638	(0.78)	1,787
Streptococcal toxic-shock syndrome	77	4	(0.05)	39	(0.02)	34
Streptococcus pneumoniae,						
invasive, drug-resistant**	2,896	164	(1.36)	1,205	(96.0)	1,527
Streptococcus pneumoniae,						
invasive, <5 yrs**	498	28	(0.52)	199	(0.39)	271
Syphilis, primary and secondary*	6,103	724	(2.05)	5,149	(2.09)	230
Tetanus	37	11	(0.03)	20	(0.01)	9
Toxic-shock syndrome	127	9	(0.05)	73	(0.03)	48
Tuberculosis**	15,989	4,001	(11.33)	11,952	(4.86)	36
Tularemia	129	-	(00.0)	79	(0.04)	49
Typhoid fever	368	48	(0.14)	147	(0.06)	173

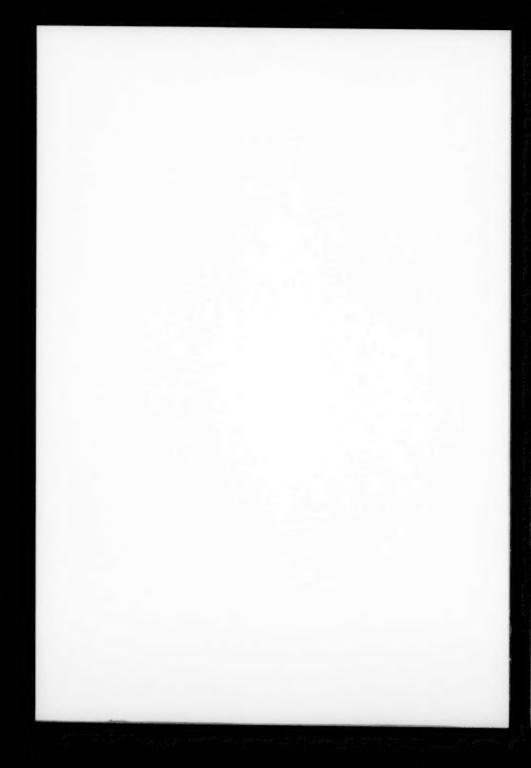
No cases of paralytic poliomyelitis, western equine encephalitis, or yellow fever were reported in 2001.

Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention—Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), Diseases with <25 reported cases are not included in this table. through December 31, 2001.

Chlamydia refers to genital infections caused by C. trachomatis.

In addition to data collected through the National Electronic Telecommunications System for Surveillance (NETSS), some ethnicity data are collected on aggregate forms different from those used for reported cases. Thus, the total number of cases reported here can differ slightly from others. Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002.

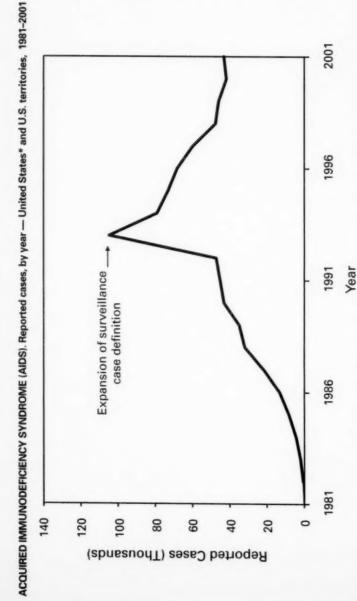
" Totals reported to the Division of Tuberculosis Elimination, NCHSTP, as of March 29, 2002. \*\* Notifiable in <40 states.



## PART 2

## Graphs and Maps for Selected Notifiable Diseases in the United States

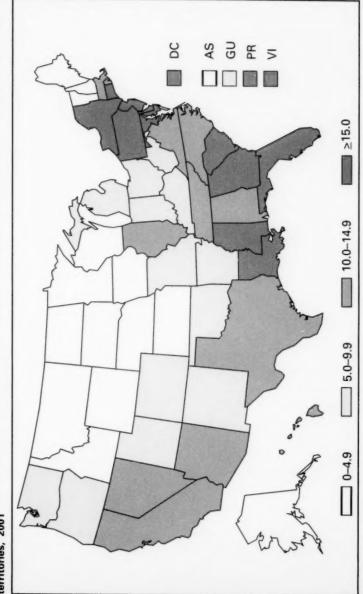
## ABBREVIATIONS AND SYMBOLS USED IN GRAPHS AND MAPS



\*Total number of AIDS cases includes all cases reported to CDC as of December 31, 2001. Total includes cases among residents in U.S. territories and 113 cases among persons with unknown state of residence

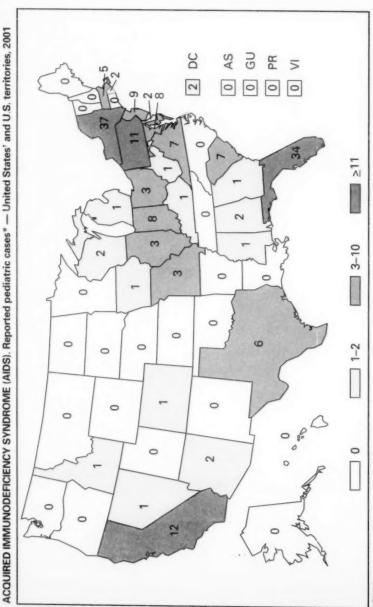
AIDS incidence increased rapidly throughout the 1980s, peaked in the early 1990s, and then declined. The peak of new diagnoses in 1993 was associated with expansion of the AIDS surveillance case definition. In 1996, sharp declines in AIDS incidence were associated with implementation of highly active antiretroviral therapy in the United States. During 1998-1999, declines in AIDS incidence began to level, and essentially no change occurred during 1999-2001.

ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS). Reported cases per 100,000 population — United States\* and U.S. territories, 2001



\*113 cases with unknown state of residence.

AIDS case reports continue to reflect the concentration of the epidemic in populous states in the northeastern, southeastern, and western United States. By region, from 1996 through 2001, AIDS incidence declined in the West; declined and then leveled in the Northeast, Midwest, and U.S. territories; and declined and then increased in the South.

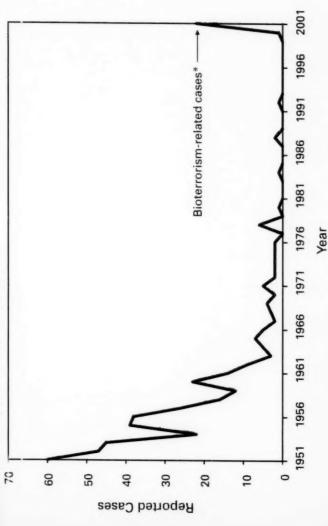


\*Children and adolescents aged <13 years.

Includes one case with unknown state of residence.

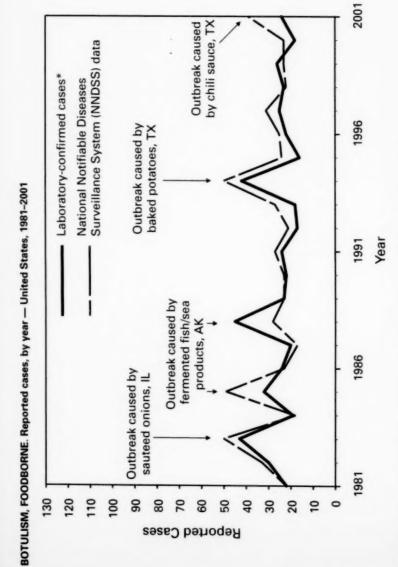
The number of reported pediatric AIDS cases reported has declined each year since 1992. During 2001, 175 new cases of AIDS among children were reported. Of these, 150 (86%) were attributed to perinatal exposure.





\*One epizootic-associated cutaneous case was reported in 2001 from Texas.

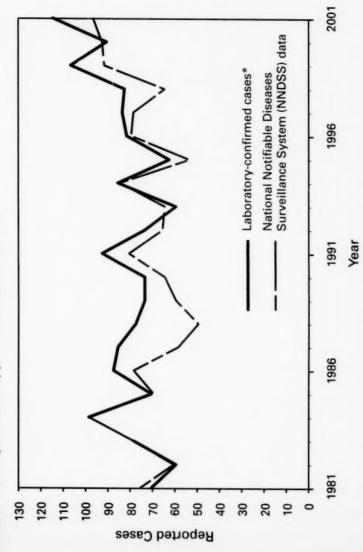
In 2001, 22 anthrax cases (11 inhalational and 11 cutaneous (four suspected, seven confirmed)) were associated with an unprecedented biological terrorism event. Five of the 11 inhalational cases were fatal. Cases occurred among residents of seven states. In addition, one naturally occurring case was reported from Texas. Bacillus anthracis remains a Class A bioterrorism threat agent.



\*Data from annual survey of state epidemiologists and directors of state public health laboratories.

Foodborne botulism is a rare but potentially fatal disease. Every case of botulism must be treated as a public health emergency, and the contaminated food vehicle and all exposed persons must be identified.

BOTULISM, INFANT. Reported cases, by year — United States, 1981-2001



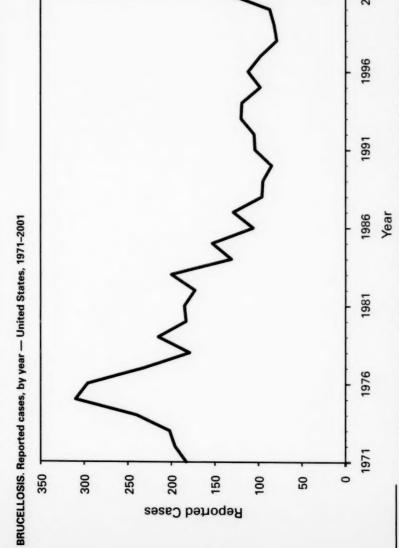
\*Data from annual survey of state epidemiologists and directors of state public health laboratories.

Infant botulism is the most common type of botulism in the United States. Cases are sporadic and risk factors remain largely unknown.

Surveillance System (NNDSS) data BOTULISM, OTHER (includes wound and unspecified). Reported cases, by year — United States, 1992-2001 2000 Laboratory-confirmed cases\* National Notifiable Diseases 1999 1998 1997 Year 1996 1995 1993 130 120 100 88 9 20 4 30 Reported Cases

\*Data from annual survey of state epidemiologists and directors of state public health laboratories. Data for wound botulism only.

Wound botulism has increased sharply during the past decade. Most cases occur in injection-drug users in the western United States and appear to be associated with injection of a particular type of heroin.

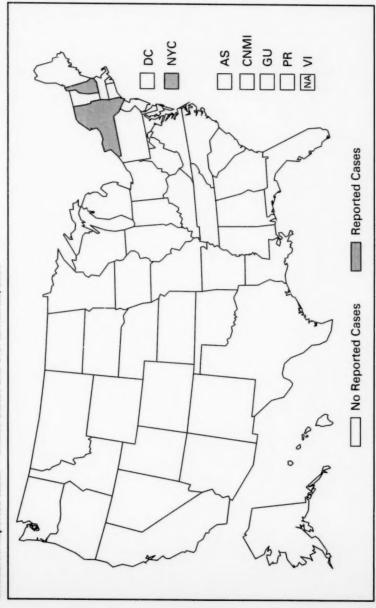


in 2001, because of the successful control program for brucellosis among cattle in the United States, the risk for brucellosis among U.S. residents is minimal. Most cases in the United States occur among international travelers or recent immigrants. Hunters exposed to infected wildlife and laboratory personnel working with Brucella species also have an elevated risk for infection. B. melitensis and B. suis are considered Class B bioterrorism threat agents.

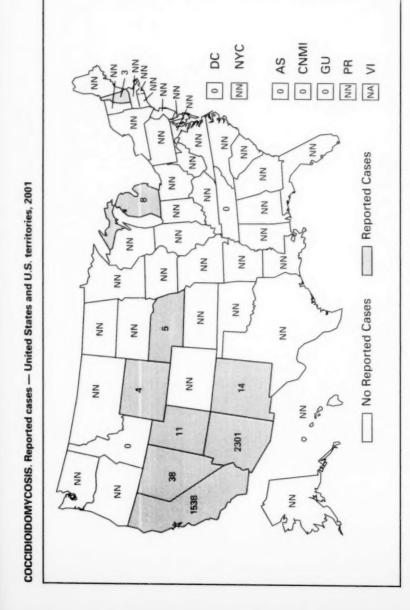
CHLAMYDIA. Reported cases among women per 100,000 female population — United States, 2001 ■ 400.1-500 300.1-400

Chlamydia refers to genital infections caused by Chlamydia trachomatis. In 2001, the chlamydia rate among women was 435.2 cases/100,000 population. Rates for men are not given because reporting for men is limited.

CHOLERA. Reported cases — United States and U.S. territories, 2001

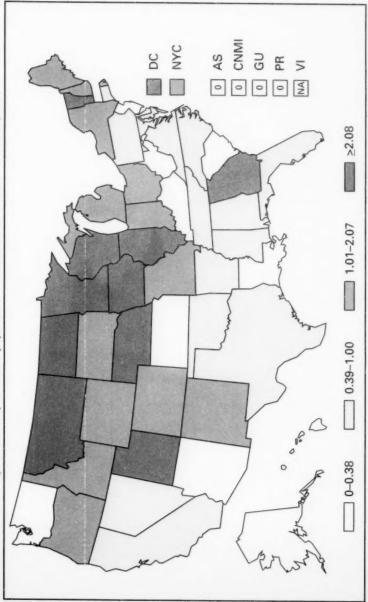


Most cholera infections in the United States are acquired in developing countries or through consumption of contaminated seafood. Cholera vaccine is not recommended for international travelers and is no longer available in the United States.



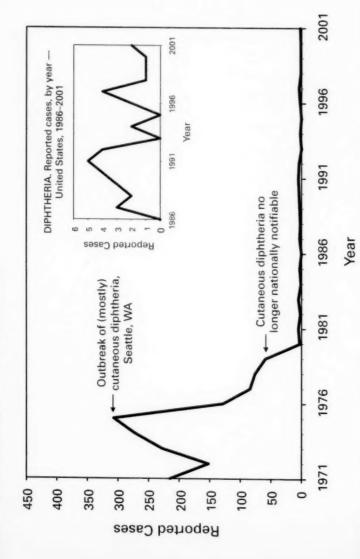
In the United States, coccidioidomycosis is endemic in the southwestern region. However, cases have been reported in other states, usually among travelers returning from areas of endemic disease.

CRYPTOSPORIDIOSIS. Reported cases per 100,000 population — United States and U.S. territories, 2001



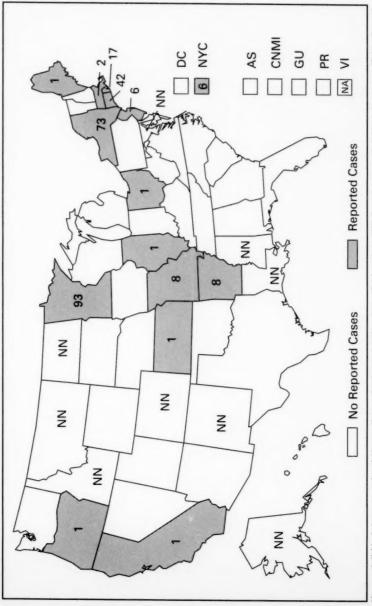
Surveillance data from 2001 suggest that infection with Cryptosporidium is geographically widespread. Reported illness onset dates exhibited a seasonal increase from May to September. Case-detection and reporting rates are higher in states that participate in CDC's FoodNet or Emerging Infectious Diseases Program and in states that report outbreaks. States conducting active surveillance included California, Colorado, Connecticut, Georgia, Maryland, Minnesota, New York, Tennessee. and Oregon. Outbreak-associated cases were reported from Hawaii, Illinois, Kentucky, Minnesota, New Hampshire, New York, Wisconsin, and Wyoming.



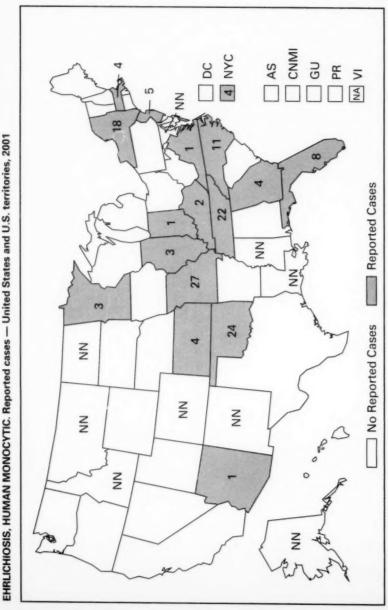


In 2001, two probable cases of diphtheria were reported. Both case-patients were inadequately immunized adults. Respiratory diphtheria may manifest as an acute membranous pharyngitis, particularly in persons who are unimmunized or inadequately immunized. The Advisory Committee on Immunization Practices recommends that after completing a 5-dose primary series of DTP and/or DTaP (diphtheria, tetanus, and pertussis) vaccine by age 6 years, a combined formulation of tetanus and diphtheria (Td) should be administered at age 11-18 years, and thereafter, a booster shot (Td) at 10-year intervals.

EHRLICHIOSIS, HUMAN GRANULOCYTIC. Reported cases — United States and U.S. territories, 2001

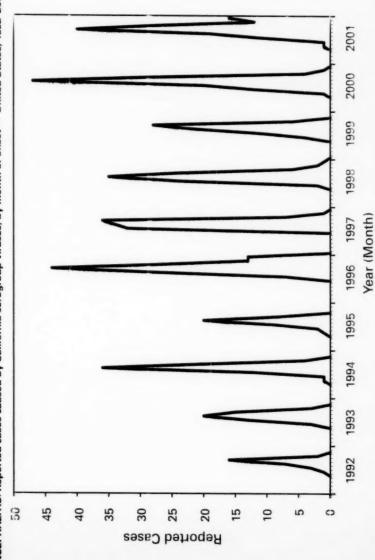


Identification and reporting of human ehrlichioses are incomplete, and numbers of cases reported here are not indicative of the overall distribution or the regional Human ehrlichiosis is an emerging tickborne disease that became nationally notifiable only in 1999 (in some states ehrlichiosis is not a notifiable disease). prevalence of disease. Six cases of ehrlichiosis, human, other, or unspecified, also were reported by Kentucky, Ohio, Illinois, and Virginia in 2001.

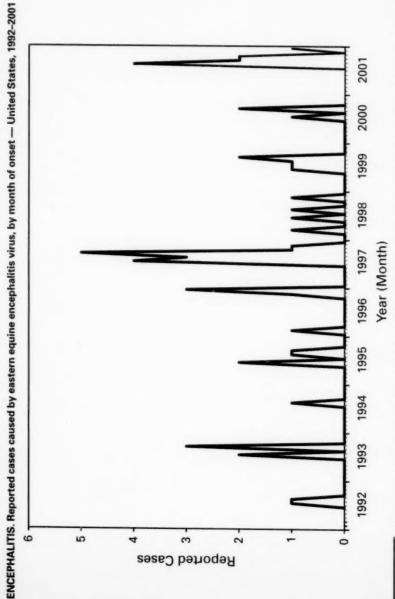


Identification and reporting of human ehrlichioses are incomplete, and numbers of cases reported here are not indicative of the overall distribution or the regional Human ehrlichiosis is an emerging tickborne disease that became nationally notifiable only in 1999 (in some states ehrlichiosis is not a notifiable disease). prevalence of disease. Six cases of ehrlichiosis, human, other, or unspecified, also were reported by Kentucky, Ohio, Illinois, and Virginia in 2001.

ENCEPHALITIS. Reported cases caused by California serogroup viruses, by month of onset — United States, 1992-2001



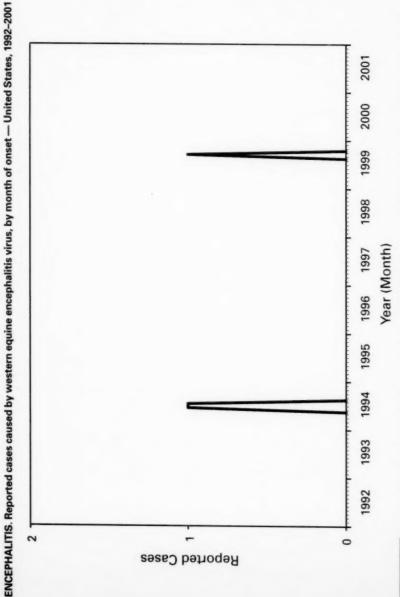
are a cause of endemic encephalitis, especially in children. In 2001, 128 cases were reported from 14 states. During 1964–2001, a median of 66 (mean: 75) cases California serogroup viruses (mainly La Crosse virus in the eastern United States, where the eastern treehole mosquito, Aedes triseriatus, is the primary vector) were reported per year in the United States.



Cases of eastern equine encephalitis among humans, often associated with high mortality rates (>20%) and severe neurologic sequelae, occur sporadically in the eastern United States. In 2001, nine cases were reported from Florida (n = 1), Georgia (n = 2), Louisiana, (n = 3), Massachusetts (n = 1), Michigan (n = 1) and Taxas (n = 1). During 1964-2001, a median of 4 (mean: 5) cases were reported per year in the United States.

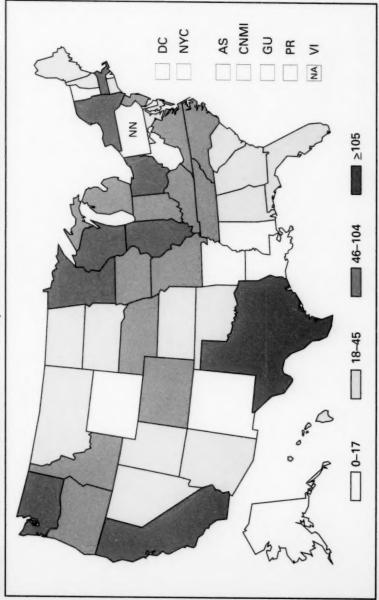
ENCEPHALITIS. Reported cases caused by St. Louis encephalitis virus, by month of onset — United States, 1992-2001 Year (Month) Reported Cases

Historically, St. Louis encephalitis virus has been the most important cause of epidemic viral encephalitis in the United States. In 2001, 79 cases were reported from Arizona (n = 1), Arkansas (n = 2), Louisiana (n = 71) and Texas (n = 5). During 1964–2001, a median of 26 (mean: 121) cases were reported per year in the United States.

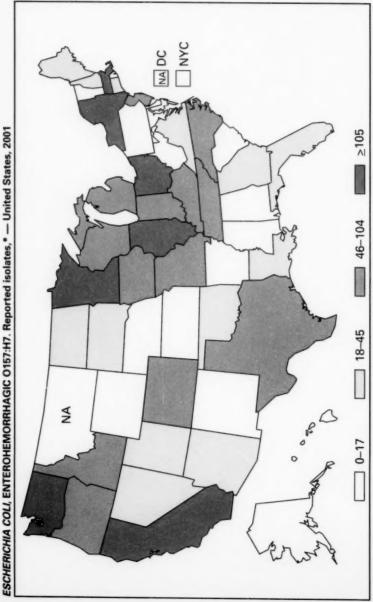


The most recent epidemic of western equine encephalitis occurred in Colorado in 1987. The reasons for the recent absence of epidemic transmission are poorly understood. No cases were reported nationally in 2001. During 1964–2001, a median of 3 (mean: 17) cases were reported per year in the United States.

ESCHERICHIA COLI, ENTEROHEMORRHAGIC 0157:H7. Reported cases — United States and U.S. territories, 2001



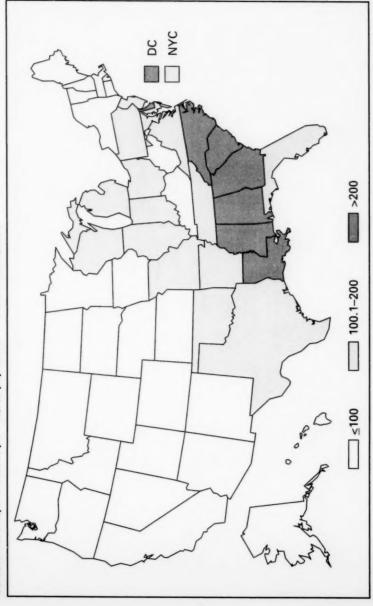
In 2001, the National Notifiable Diseases Surveillance System case definition for enterohemorrhagic E. coli included cases of illness due to all serotypes of enterohemorrhagic E. coli. Only cases due to serotype 0157:H7 are included in this graph. Many infections from enterohemorrhagic E. coli, especially non-O157:H7 serotypes, are not recognized or reported, in part because laboratories do not routinely test for them.



\*Data from the Public Health Laboratory Information System (PHLIS).

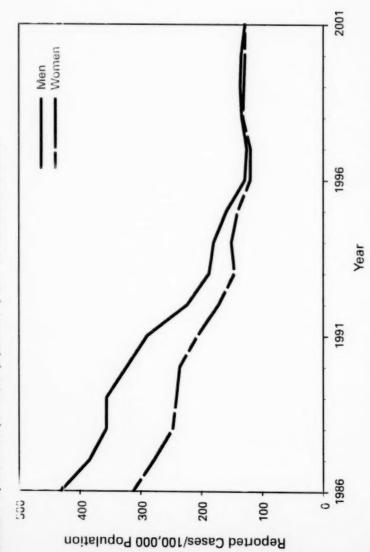
In 2001, the National Notifiable Diseases Surveillance System case definition for enterohemorrhagic E. coli included isolates of all serotypes of enterohemorrhagic E. coli. Only isolates confirmed by a state public health laboratory are reported to PHLIS. Isolates of serotype 0157:H7 are included in this graph. Many public health laboratories can subtype isolates using pulsed-field gel electrophoresis and compare their findings electronically with other states through PulseNet, a national network of public health laboratories.

GONORRHEA. Reported cases per 100,000 population — United States, 2001



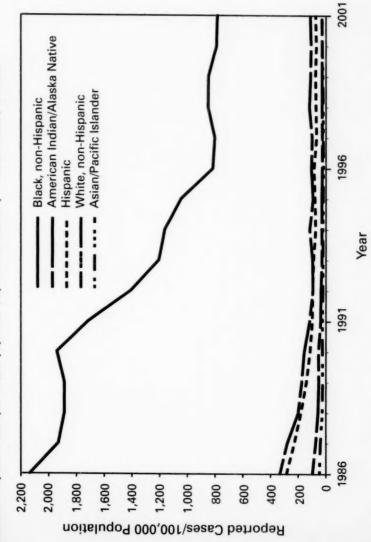
in 2001, the overall U.S. gonorrhea rate was 128.5 cases/100,000 population. The Healthy People 2010 national objective is <19 cases/100,000 population. Eight states reported rates below the national objective.

GONORRHEA. Reported cases per 100,000 population, by sex — United States, 1986-2001



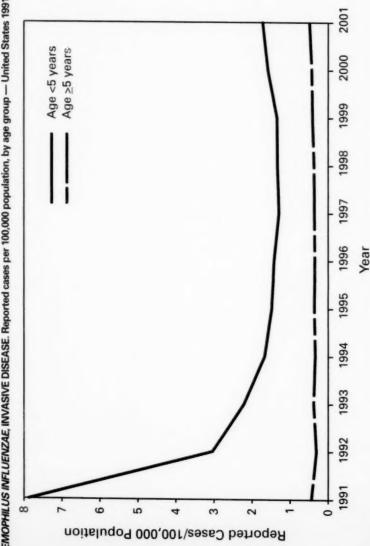
Rates of gonorrhea in the United States have been steady since 1998, at about 130 cases/100,000 population (128.5 in 2001, 129.0 in 2000, 132.3 in 1999, and 131.9 in 1998). In 2001, rates among men and women were nearly identical (128.4 cases/100,000 men and 128.2 cases/100,000 women).

GONORRHEA. Reported cases per 100,000 population, by race and ethnicity — United States, 1986–2001



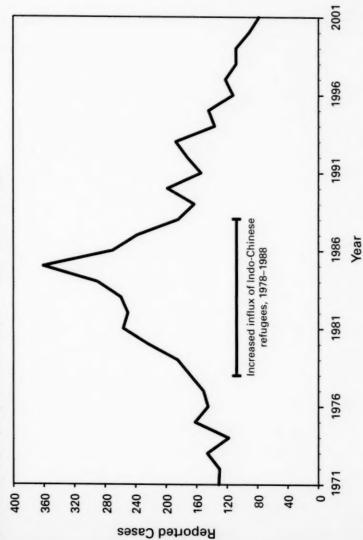
In 2001, the gonorrhea rate among non-Hispanic blacks was approximately 27 times greater than the rate for non-Hispanic whites.

HAEMOPHILUS INFLUENZAE, INVASIVE DISEASE. Reported cases per 100,000 population, by age group — United States 1991-2001



Before the introduction of conjugate Haemophilus influenzae type b (Hib) vaccines in December 1987, the incidence of Hib invasive disease among children aged 45 years was estimated to be 100/100,000 population. In 2001, the incidence of H. influenzae invasive disease (all types) was 1.7/100,000 in this age group (325). cases: 27 [8%] reported as due to Hib, 144 [44%] due to other serotypes or nontypeable isolates, and 154 [47%] for which serotype information was unknown or missing). Because accurate serotyping of H. influenzae isolates from children is essential for surveillance, all H. influenzae isolates causing invasive disease in children aged <5 years should be sent to CDC for serotype confirmation.

HANSEN DISEASE (leprosy). Reported cases, by year — United States, 1971-2001



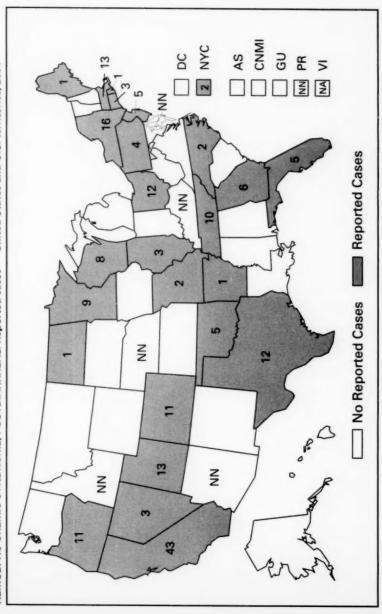
HANTAVIRUS PULMONARY SYNDROME. Reported cases by survival status,\* by year — United States, 1994–2001 2001 2000 1999 1998 Lived Died 1997 1996 1995 1994 F00 55 45 30 20 Reported Cases

\*Data from the National Center for Infectious Diseases.

Between 2000 and 2001, the number of annual cases of hantavirus pulmonary syndrome declined from 46 to a record low of 11. The case-fatality ratio for the period 1994-2001 is 30%. The figure includes recently confirmed cases with onset in 1999 and 2000.

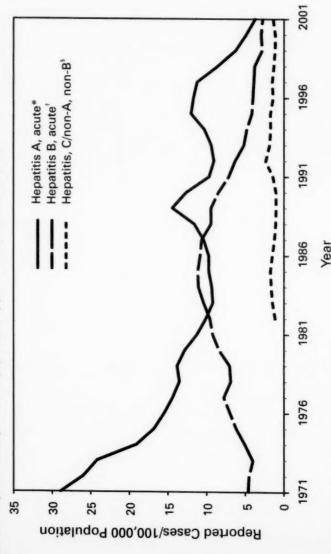
Year

HEMOLYTIC UREMIC SYNDROME, POSTDIARRHEAL. Reported cases — United States and U.S. territories, 2001



In the United States, most cases of postdiarrheal hemolytic uremic syndrome are caused by infections with Escherichia coil 0157:H7 or other E. coil bacteria that produce Shiga toxin.

HEPATITIS. Reported cases per 100,000 population, by year — United States, 1971-2001



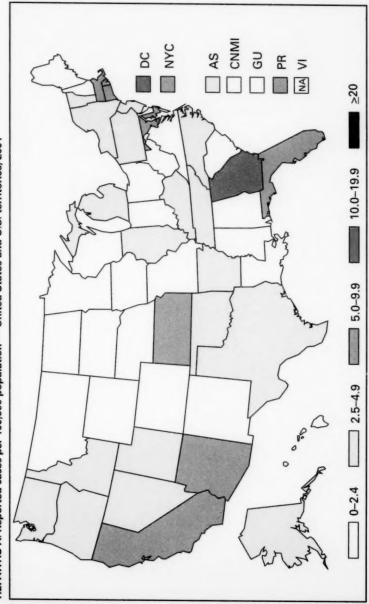
\*Hepatitis A vaccine was first licensed in 1995.

Hepatitis B vaccine was first licensed in June 1982.

An anti-HCV (hepatitis C virus) antibody test first became available in May 1990.

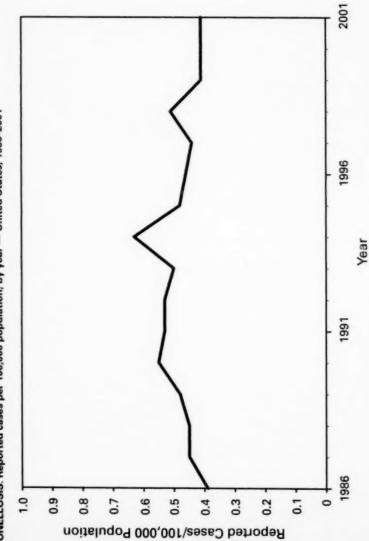
in 2001, the hepatitis A rate was the lowest ever recorded. However, cyclic increases in hepatitis A have been observed approximately every 10 years, and thus rates could increase again. The incidence of hepatitis B continues to decline, but because of asymptomatic infections and underreporting, reported cases represent only a fraction of actual infections occurring (approximately 78,000 new infections in 2001). The trend in reported hepatitis C; non-B after 1990 is misleading because reported cases have included those based only on a positive laboratory test for anti-HCV, and most of these cases represent chronic HCV infection.

HEPATITIS A. Reported cases per 100,000 population — United States and U.S. territories, 2001



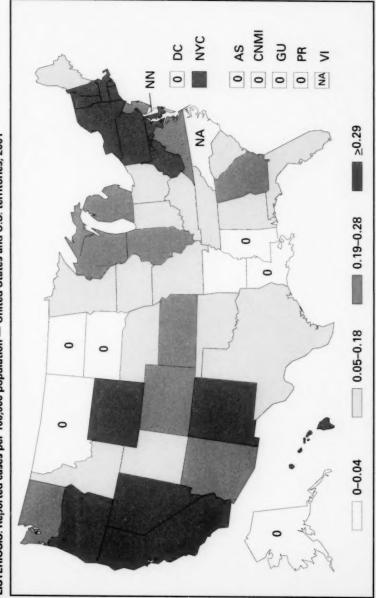
Hepatitis A rates have declined in all regions of the United States, including the western states where rates have historically been higher than elsewhere in the country. Because hepatitis A rates vary from year to year with nationwide increases approximately every 10 years, further monitoring is needed to determine whether these rates will remain low.

LEGIONELLOSIS. Reported cases per 100,000 population, by year — United States, 1986-2001



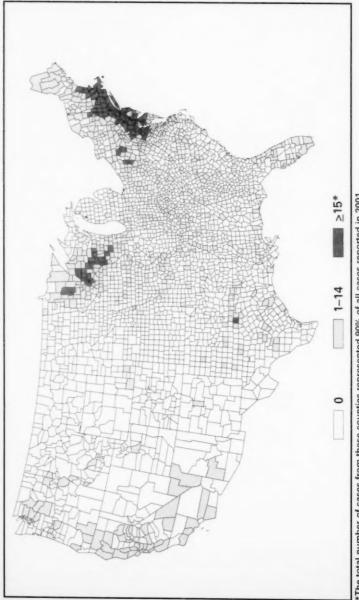
in 2001, the overall reported rate of legionellosis was 0.42 cases/100,000 population. However, data from population-based studies indicate that the actual rate is more than 10 times this number.

LISTERIOSIS. Reported cases per 100,000 population — United States and U.S. territories, 2001



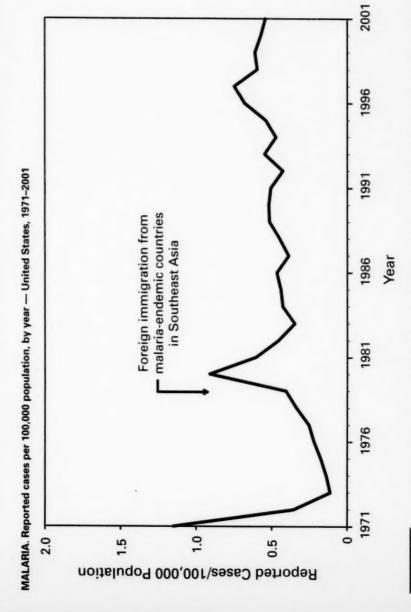
Listeriosis was made a nationally notifiable disease in 2000. Although infection is relatively uncommon, listeriosis is a leading cause of death due to foodborne illness in the United States. Recent outbreaks have been linked to frankfurters, deli meats, and Mexican-style cheeses. Routine subtyping of isolates through PulseNet helps identify multistate outbreaks.

LVME DISEASE. Reported cases by county — United States, 2001



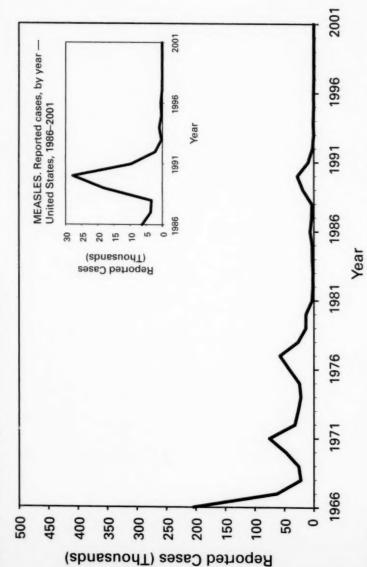
\*The total number of cases from these counties represented 90% of all cases reported in 2001.

A total of 17,029 cases of Lyme disease were reported in 2001, 15,998 of these from 10 states with endemic disease (Connecticut, Delaware, Massachusetts, Maryland, Minnesota, New Jersey, New York, Pennsylvania, Rhode Island, Wisconsin). The incidence rate in these states was 23.9/100,000 population. By integrating prevention strategies into community-based programs, CDC and state health departments hope to achieve the Healthy People 2010 goal of reducing the incidence of Lyme disease to 9.7 cases/100,000 population in states with endemic disease.

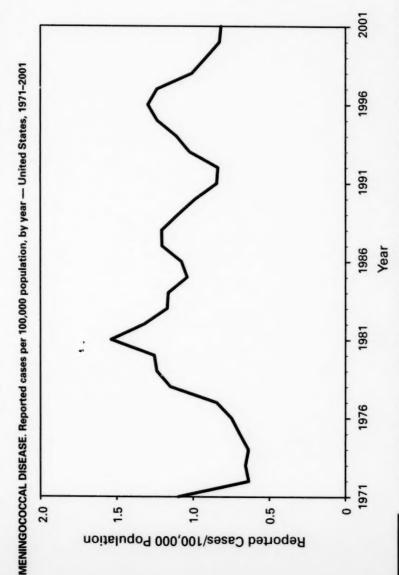


In the last 15 years, imported malaria cases have increased, most likely because of increasing international travel and immigration as well as increased antimalarial drug resistance.

MEASLES. Reported cases, by year — United States, 1966-2001

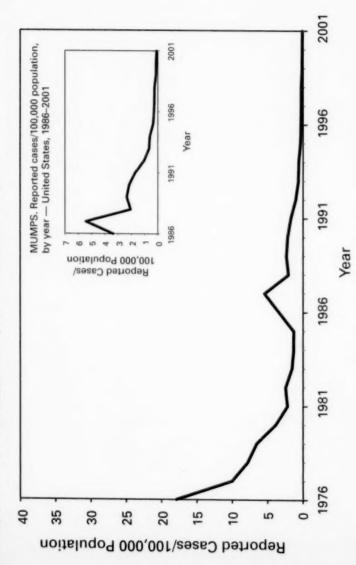


With a total of 116 measles cases reported in 2001, measles incidence remained at <1 case/1,000,000 population for the fifth consecutive year, and 78% of cases were associated with international importation.



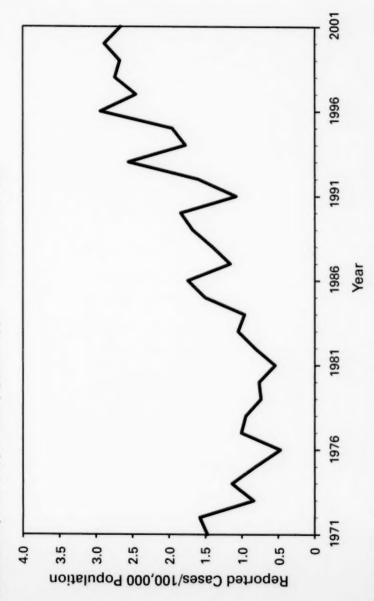
probable, seven suspected, and 318 of unknown case status. Serogroup information was reported for 33% of cases; serogroup Y accounted for 33% of those reported. Most other cases were caused by serogroup B (32%) or serogroup C (27%). Although rates of meningococcal disease are usually highest among children Rates of meningococcal disease have been relatively stable in the United States. A total of 2,333 cases were reported in 2001, of which 1,931 were confirmed, 77 aged <1 year, 55% of cases in 2001 occurred among persons aged ≥18 years.

MUMPS. Reported cases per 100,000 population, by year — United States, 1976-2001

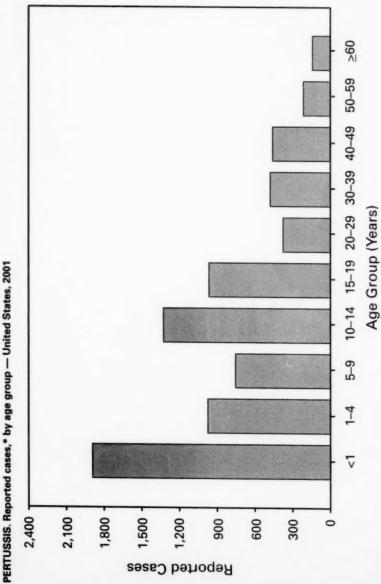


Because of the recommendation of two doses of measles-mumps-rubella (MMR) vaccine and the continued high coverage rate in the United States, mumps has reached an all-time record low of 266 reported cases for 2001, thus meeting the Healthy People 2001 objective of <500 cases per year.

PERTUSSIS. Reported cases per 100,000 population, by year — United States, 1971-2001



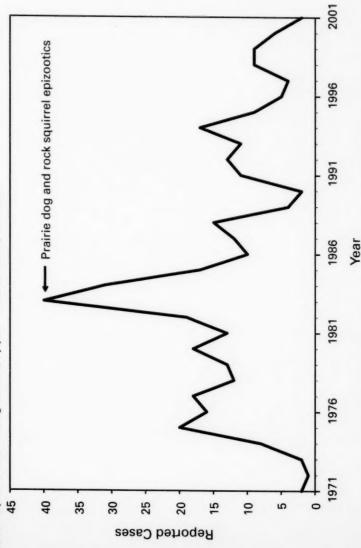
Pertussis epidemics occur every 3-4 years. During 2000, the highest number of pertussis cases (7,867) since 1967 was reported (incidence: 2.9 cases per 100,000 population).



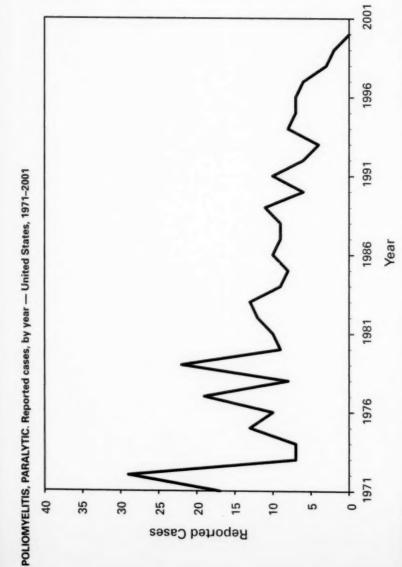
\*Of 7,580 cases, 25 were reported with unknown age.

In 2001, 22% of reported cases were among infants aged <6 months (who were too young to receive 3 doses of DTaP vaccine), and 52% of cases were among persons aged ≥10 years (no pertussis vaccine was licensed for use in persons aged ≥7 years).

PLAGUE. Reported cases among humans, by year - United States, 1971-2001



Only two laboratory-confirmed cases of human plague were identified from the United States in 2001. Utah and New Mexico each reported a single case, both of which were of the primary bubonic form of the disease. Both cases were acquired from natural sources within known enzootic regions, and both patients recovered.

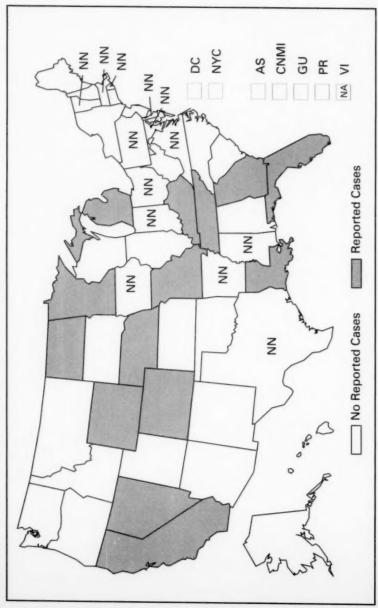


As of January 1, 2000, the Advisory Committee on Immunization Practices recommended the exclusive use of inactivated poliovirus vaccine for routine childhood polio vaccination in the United States.

Year PSITTACOSIS. Reported cases, by year — United States, 1971-2001 Reported Cases

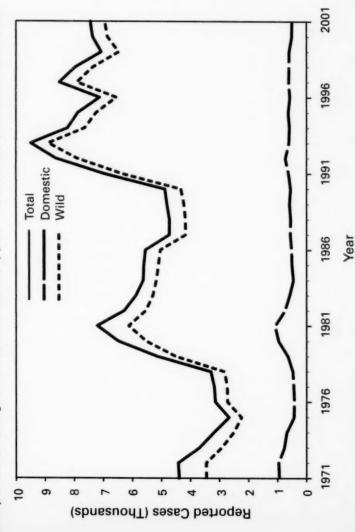
Throughout the 1990s, the number of reported cases of psitacosis steadily declined. This might reflect both improved diagnostic testing to distinguish Chlamydophila psitacifrom C, pneumoniae infections and improved control measures for psitacosis among birds.

Q FEVER. Reported cases — United States and U.S. territories, 2001



O fever became nationally notifiable in 1999. Identification and reporting of O fever is incomplete, and the number of cases reported do not represent the overall distribution or regional prevalence of disease.

RABIES. Reported cases among wild and domestic animals, by year\* — United States and Puerto Rico, 1971–2001



\*Data from the National Center for Infectious Diseases.

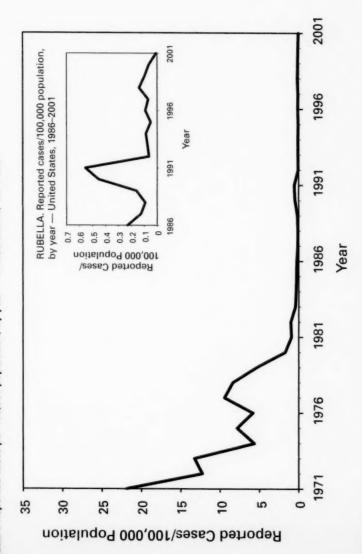
Periods of resurgence and decline of rabies incidence are primarily the result of cyclic reemergence, mainly among raccoons in the eastern United States. Wildlife populations increase and reach densities sufficient to support epizootic transmission of the disease, resulting in substantial increases in reported cases. As populations are decimated by these epizootics, numbers of reported cases decline until populations again reach levels to support epizootic transmission of the disease.

2001 ROCKY MOUNTAIN SPOTTED FEVER. Reported cases per 100,000 population, by year — United States, 1971–2001 1996 1986 1981 1976 1971 0.6 0.5 0.4 0.3 Reported Cases/100,000 Population

Changes in the number of reported cases of Rocky Mountain spotted fever might reflect changes in surveillance algorithms for this and other tickborne diseases. Biological factors (e.g., changes in tick populations resulting from fluctuating environmental conditions) also could be involved.

Year

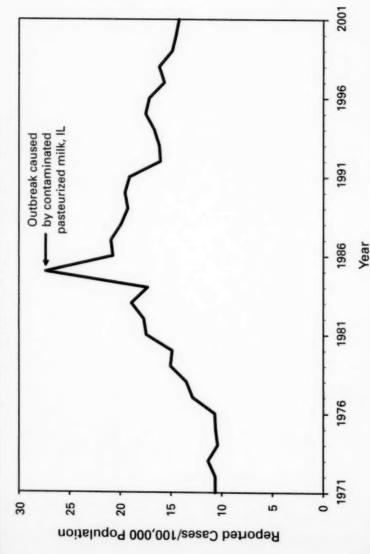
RUBELLA. Reported cases per 100,000 population, by year — United States, 1971-2001



in 2001, only 23 cases of rubella were reported, which is the lowest number ever reported and an 87% decrease from the previous year. The majority of reported cases continue to be among persons aged >20 years; however, in contrast to year 2000, most of the cases in 2001 were among non-Hispanics.

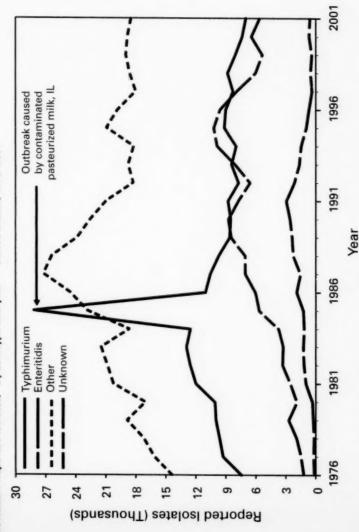
Note: A rubella vaccine was first licensed in 1969.

SALMONELLOSIS. Reported cases per 100,000 population, by year — United States, 1971-2001



Foodborne transmission accounts for approximately 95% of salmonellosis in the United States. In a population-based analysis, the estimated incidence of culture-confirmed salmonellosis declined 15% during 1996-2001.

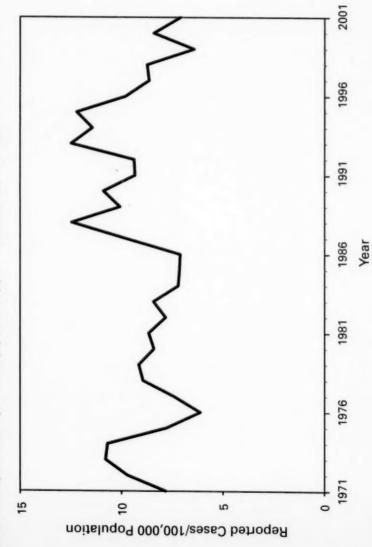
SALMONELLA. Reported isolates,\* by serotype and year — United States, 1976–2001



\*Data from Public Health Laboratory Information System (PHLIS).

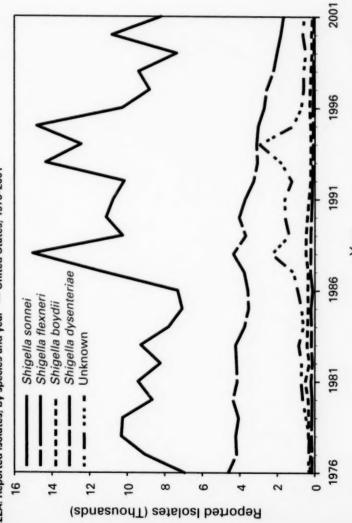
In 2001, Salmonella serotypes Typhimurium and Enteritidis accounted for 40% of all reported Salmonella isolates from humans. A multidrug-resistant strain of S. Newport S. Typhimurium now accounts for approximately 47% of the S. Typhimurium infections in the country. During 2001, a new multidrug-resistant strain of S. Newport was identified.

SHIGELLOSIS. Reported cases per 100,000 population, by year — United States, 1971-2001



The incidence of shigellosis has remained relatively stable during the last several years.

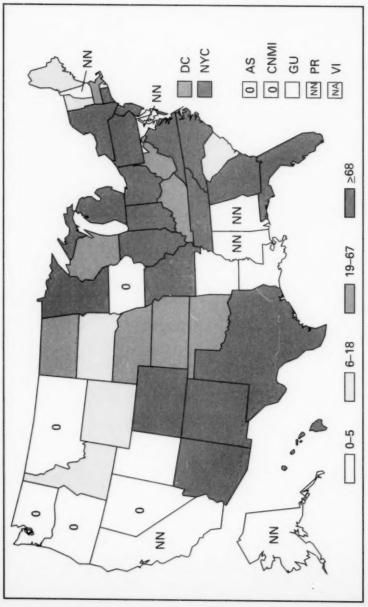
SHIGELLA. Reported isolates, by species and year\* — United States, 1976–2001



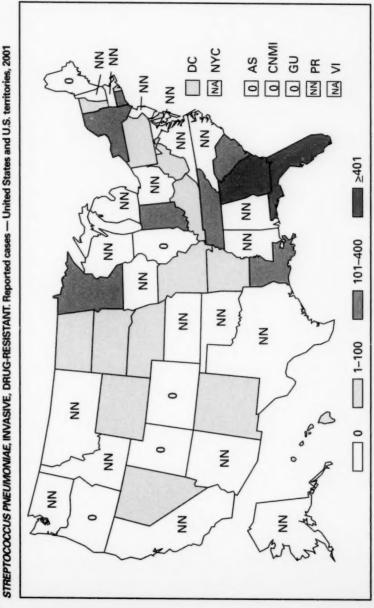
\*Data from the Public Health Laboratory Information System (PHLIS).

Prolonged and extensive outbreaks of Shigella sonnei infections continue to occur in child care settings. The reported incidence of S. flexneri infections continues to decrease. Both serogroups have become increasingly resistant to first-line antimicrobial agents, including trimethoprim-sulfamethoxazole and ampicillin.

STREPTOCOCCAL DISEASE, INVASIVE, GROUP A. Reported cases — United States and U.S. territories, 2001

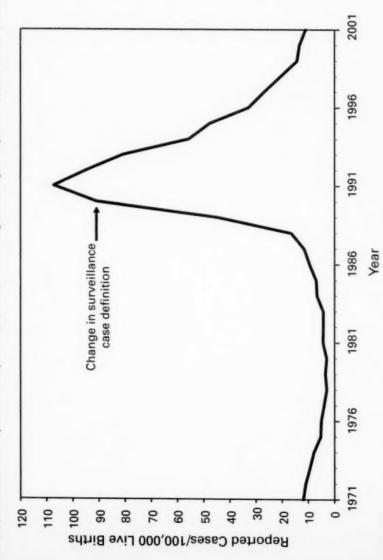


Passive reporting likely underestimates the numbers of invasive group A Streptococcus (GAS) infections in the United States. In 2001, 1,146 invasive GAS infections were reported by nine sites participating in CDC's Active Bacterial Core Surveillance (ABCs), corresponding to an incidence rate of 3.5 cases/100,000 population and a projected 9,950 cases nationwide.



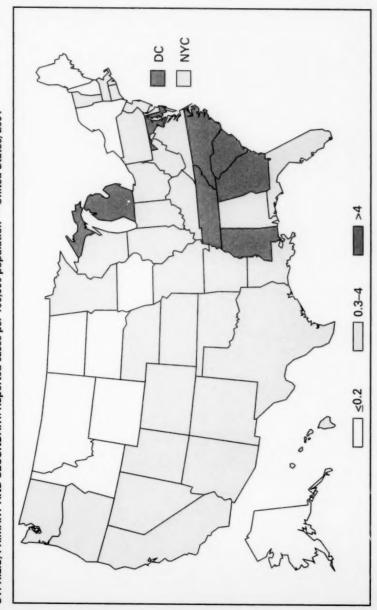
The burden of disease due to drug-resistant Streptiococcus pneumoniae may be underrepresented because of passive reporting. According to data from CDC's Active Bacterial Core Surveillance (ABCs) for 2001, the rate of invasive pneumococcal disease in the United States was 17 cases/100,000 population; 23.6% of pneumococcal strains causing invasive pneumococcal disease had decreased susceptibility to penicillin. Disease rates were lower in 2001 after the introduction of pneumococcal conjugate vaccine in 2000.

SYPHILIS, CONGENITAL. Reported cases per 100,000 live births among infants aged <1 year — United States, 1971-2001



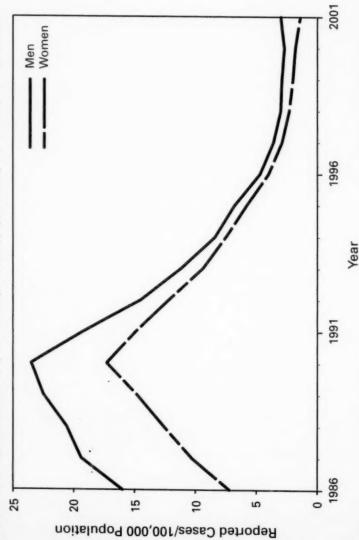
The rate of congenital syphilis decreased from 14.0 cases/100,000 live births in 2000 to 11.1 cases/100,000 in 2001.

SYPHILIS, PRIMARY AND SECONDARY. Reported cases per 100,000 population — United States, 2001



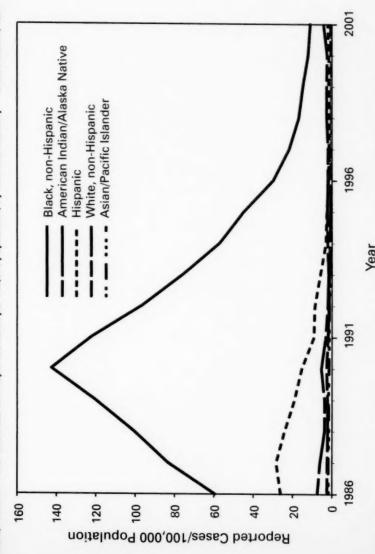
In 2001, the overall U.S. rate of primary and secondary syphilis was 2.2 cases/100,000 population, which is above the Healthy People 2010 objective of 0.2 cases/ 100,000 population per year. Ten states reported rates at or below the national objective, and 11 states reported fewer than six cases.

SYPHILIS, PRIMARY AND SECONDARY. Reported cases per 100,000 population, by sex — United States, 1986–2001



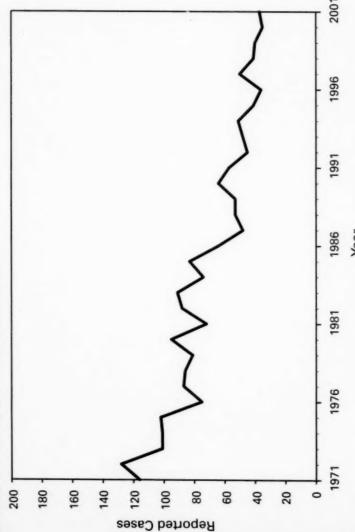
The reported rate of primary and secondary syphilis increased slightly in the United States from 2.1 cases/100,000 population in 2000 to 2.2/100,000 in 2001. Among women, rates continued to decline, from 1.7 cases/100,000 women in 2000 to 1.4 cases/100,000 women in 2001, the lowest rate for women since reporting began in 1941. Among men, rates increased from 2.6 cases/100,000 men in 2000 to 3.0/100,000 men in 2001, the first increase since 1990.

SYPHILIS, PRIMARY AND SECONDARY. Reported cases per 100,000 population, by race and ethnicity — United States, 1986–2001



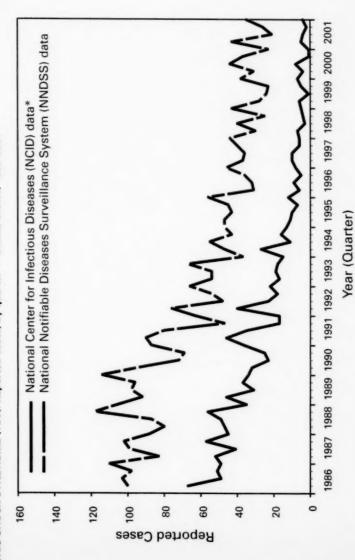
Rates of primary and secondary syphilis continued to decline among non-Hispanic blacks, from 12.2 cases/100,000 in 2000 to 11.0/100,000 in 2001, while rates among all other race/ethnic groups increased (non-Hispanic whites from 0.5/100,000 to 0.7/100,000 Hispanics from 1.6/100,000 to 2.1/100,000 American Indians/ Alaska Natives from 2.4/100,000 to 4.2/100,000, and Asian/Pacific Islanders from 0.3/100,000 to 0.5/100,000). Although the rate for non-Hispanic blacks declined, the rate in 2001 was 16 times the rate for non-Hispanic whites.





In 2001, 37 tetanus cases were reported: four (11%) among persons aged <25 years, 19 (51%) among those aged 25-59 years, and 14 (38%) among those >60 years. in 1997–2001, fewer than 10% of reported cases and no reported deaths occurred among persons known to have received at least 3 doses of tetanus toxoid and whose most recent dose was <10 years before disease onset.

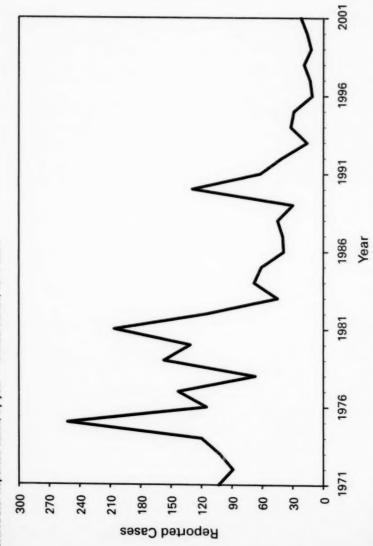
TOXIC-SHOCK SYNDROME (TSS). Reported cases, by quarter — United States, 1986–2001



\*Includes cases meeting the CDC definition for confirmed and probable cases of staphylococcal TSS.

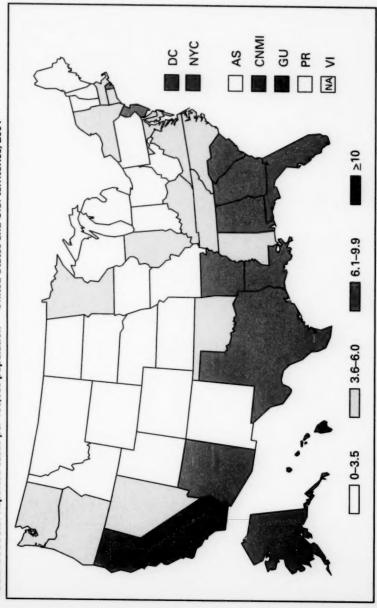
in 2001, a total of 20 cases of staphylococcal toxic shock syndrome (TSS) were reported to NCID. Of those cases, five (25%) were menstrual TSS.

TRICHINOSIS. Reported cases, by year — United States, 1971-2001



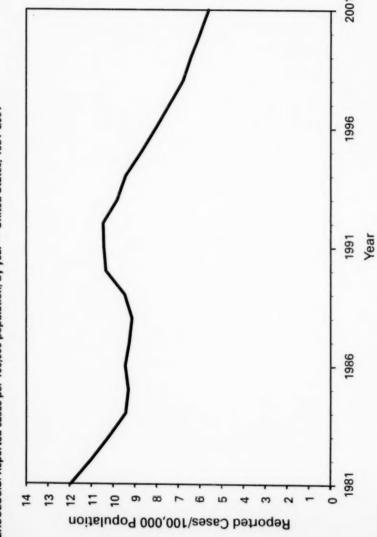
In 2001, 22 cases of trichinosis were reported from seven states (Alaska, California, Illinois, Iowa, New Jersey, Wisconsin, and Wyoming). The year 2001 was the sixth consecutive year in which <25 cases were reported.

TUBERCULOSIS. Reported cases per 100,000 population — United States and U.S. territories, 2001



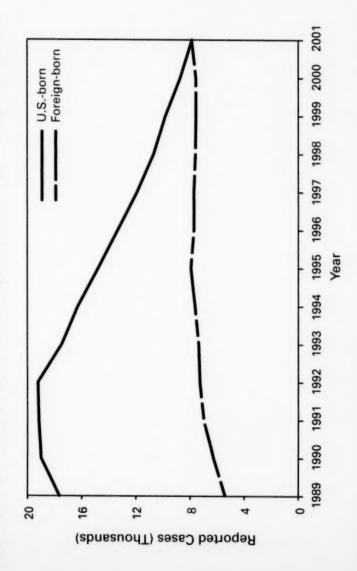
In 2001, a total of 21 states and Puerto Rico had tuberculosis rates <3.5 cases/100,000, which is the interim (i.e., year 2000) incidence target for the elimination of tuberculosis by the year 2010.

TUBERCULOSIS. Reported cases per 100,000 population, by year — United States, 1981-2001



In 2001, a total of 15,989 cases of tuberculosis were reported to CDC, representing a 2.4% decrease from 2000.

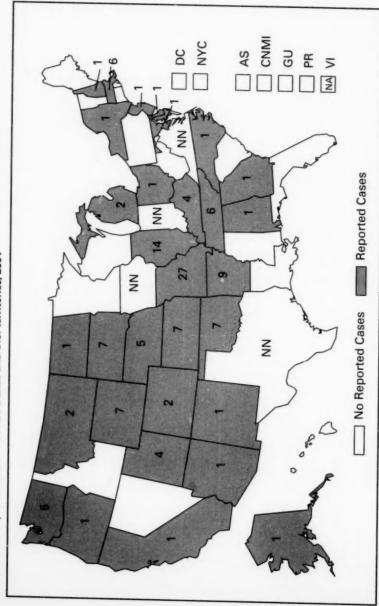
TUBERCULOSIS. Reported cases among U.S.-born and foreign-born persons,\* by year — United States, 1989–2001



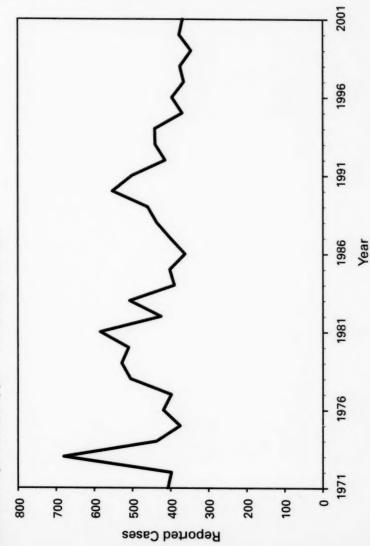
\*In 2001, place of birth was unknown for 279 case-patients.

The number of tuberculosis cases among foreign-born persons in the United States increased from 5,411 (23% of the total number) in 1989 to 7,865 (50% of the total) in 2001.

TULAREMIA. Reported cases — United States and U.S. territories, 2001

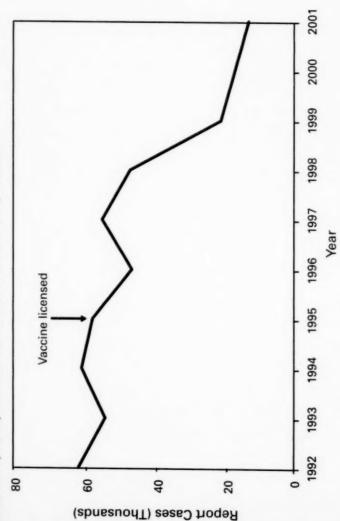


TYPHOID FEVER. Reported cases, by year — United States, 1971-2001



The majority of reported cases of typhoid fever are acquired by unvaccinated travelers to countries where the disease is endemic.

VARICELLA (Chickenpox). Reported cases from selected U.S. states\* (n=4), 1992-2001



\*Michigan, Rhode Island, Texas, and West Virginia maintained adequate reporting by reporting cases constituting ≥5% of their birth cohort during 1990-1995 (National Immunization Program).

The number of varicella cases in four states (Michigan, Rhode Island, Texas, and West Virginia) that reported in 2001 is the lowest ever reported, constituting a 22% decline compared with cases reported in 2000 and a 76% decline compared with cases reported in the prevaccine years of 1993–1995.

# PART 3

Historical Summaries of Notifiable Diseases in the United States, 1970–2001

# SYMBOLS USED IN TABLES

No reported cases ...... —

Data not available ...... NA

Rates <0.01 after rounding are listed as 0.00.

Note: Data in the MMWR Summary of Notifiable Diseases, United States, 2001 might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and case definitions.

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123   124   127   120	AIDS*	17.32	17.83	40.20	30.07	27.20	25.21	21.85	17.21	16.66	14.95	14,88
itig wound and unsp.) 0.056 0.04 0.05 0.04 0.05 0.05 0.05 0.05 0.05	Amebiasis	123	121	121	120						- 1	-
ing wound and unap.) 0.056 0.059 0.0	Anthrax	1 2	000	1 5	1	1					000	LOD
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140    0.80    0.54    0.20    0.05	Srucellosis	900	200	0.06	0.05	200	000	000	0.00	0.00	000	900
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0.40   0.39   0.38   0.28   1   1   1   1   1   1   1   1   1	Human monocytic		-			-					600	0.06
Second Country	ncephalitis, primary	0.40	0.30	0.36	0.28		4		4		0	
Particle	Postinfections	0.03	900	0.07	90.0							
Authorine postdiarrheal 350 050 050 050 050 050 050 050 050 050	ncephalitis, California serogroup viral		-	-	-			•	0.04	0.03	0.04	0.06
100   100	cephalitis, eastern equine					-		•	000	000	000	000
And the contragric (EHEC)  The contragric (EH	cephalitis, St. Louis	•	•						0.01	000	000	0.03
Definition (EHEC)  1.01 1.18 1.104 1.128 1.17 1.134  1.02 1.134 1.18 1.104 1.128 1.17 1.134  1.03 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134  1.10 0.005 0.007 0.007 0.005 0.006 0.006 0.006 0.006 0.004 0.004 0.004 0.004  1.10 0.005 0.007 0.007 0.005 0.006 0.006 0.006 0.004 0.004 0.004 0.004  1.10 0.005 0.007 0.007 0.006 0.006 0.006 0.006 0.004 0.004 0.004  1.10 0.005 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007  1.10 0.005 0.005 0.006 0.006 0.007 0.004 0.007 0.007 0.007 0.007  1.10 0.005 0.005 0.006 0.007 0.007 0.007 0.007 0.007 0.007 0.007  1.10 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007  1.10 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007  1.10 0.007 0.0	cephalitis, western equine								0000	0000	0000	0000
n-0157  246-48 20160 17240 188-40 149-50 12-10 1.18 1.04 1.28 1.77 1.74  246-48 20160 17240 188-40 149-50 12-10 1.24 1.28 1.77 1.74  Leinvasive 1.10 0.00 0.00 0.00 0.00 0.00 0.00 0.0	cherichia coli, enterohemorrhagic (EHEC)											
Page	O157:H7	•	•	-		1.01	1.18	104	128	1.77	1.74	1.22
pod         246.48         20160         172.40         188.40         148.50         12.20         12.14         132.86         133.20         131.65           e, invasive 10.00         0.00	EHEC, serogroup non-O157			•								0.19
246-48 201,60 172-40 188-40 148-50 121-40 132-28 133.20 131-86 149 148-50 149-148-50 121-40 132-28 133.20 131-86 149 149-149-149-149-149-149-149-149-149-149-	EHEC, not serogrouped		-	-								900
He, invasive 1,001 0,000	phorrhea	249.48	201.60	172.40	168.40	149.50	122.80	121.40	132.86	133.20	131.66	128.53
1,00	anuloma inguinate	0.01	000	0000	000	- !	- !	- :	-		- !	-
yy syndrome 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	nemophilus influenzae, invasive	1.10	0.55	0.55	0.45	0.45	0.45	0.44	0.44	0.48	0.51	0.57
### Profit of the control of the con	insen disease (leprosy)	900	0.07	0.07	0.05	0.08	0.06	900	0.05	000	000	000
1.8** 1.42	ntavirus purmonary syndrome					22	22	Z Z	<b>4</b> • • • • • • • • • • • • • • • • • • •	4	000	000
Here T.74 6.32 5.18 6.18 4.18 4.01 1.02 2.02 2.02 2.02 5.18 6.18 4.18 4.01 1.02 2.02 2.02 2.02 5.18 6.18 4.18 4.01 1.02 2.02 2.02 5.18 6.18 6.18 6.18 6.18 6.18 6.18 6.18 6	morphic uremic syndrome, postdiarmeat	200	900	0 40	00.00	WN.	AN .	NA.	¥20	N N	0.10	9000
1.8** 0.53	patitis A scute	714	6.20	200	481	4.10	401	285	000	000	1000	270
0.50 0.35 0.24 0.17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	patitis C/non-A. non-B**	142	2.36	1.86	1.78	1.78	141	1.43	130	1.14	117	141
0.63 0.653 0.650 0.650 0.450 0.47 0.44 0.51 0.41 0.42 0.42 0.45 0.45 0.47 0.44 0.51 0.41 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42	patitis, unspecified	0.50	0.35	0.24	0.17			-	-			
002 002 002 002 002 002 002 002 002 002	gionellosis	0.53	0.53	0.50	0.63	0.48	0.47	0.44	0.51	0.41	0.42	0.42
180 3.83 3.20 5.01 4.49 6.21 4.79 6.39 5.99 6.33 6.30 6.30 6.30 6.30 6.30 6.30 6.30	prospirosis	nn	mo	70.0	700						0.00	000
tereum 0,19 0,10 0,10 0,10 0,10 0,10 0,10 0,10	ma disease	380	2 93	330	501	4.49	621	4.70	9.8	8 00	650	200
051 0.43 0.95 0.47 0.56 0.68 0.75 0.80 0.61 0.67 0.57 0.50 0.61 0.57 0.55 0.59 0.54 0.55 0.55 0.55 0.54 0.55 0.55 0.55	mphogranuloma venereum	0.19	0.10	0.10	0.10	-	-	-	-	-	3-	3-
382 0.08 0.12 0.17 0.72 0.30 0.06 0.04 0.04 0.03 0.03 0.03 0.03 0.03 0.03	slaria	0.51	0.43	0.55	0.47	0.56	0.68	0.75	000	0.61	0.57	0.55
0.84 0.84 1.02 1.11 1.25 1.30 1.24 1.01 0.82 0.83 0.83 1.72 1.03 0.080 0.080 0.085 0.29 0.27 0.29 0.14 0.13	easles	3.82	0.88	0.12	0.37	0.12	0.20	900	0.04	0.04	0.03	0.04
1,72 1,03 0,00 0,35 0,27 0,25 0,14 0,13	eningococcal disease	0.84	0.84	1.02	1.11	128	130	124	1.01	0.92	0.83	0.83
	sdun	1.72	1.03	900	0.60	0.30	0.29	0.27	620	0.14	0.13	0.10

TABLE 7 (Continued Reported incidence rates of notifiable diseases ner 100.000 nonulation — United States, 1991-2001

Disapse	1907 1907 1904 1905 1904 1905 1905 1905	1982	1993	1994	1005	1996	1987	1000	1999	2000	2001
Charles	1001		2001	200	1	200	1001	1000	1000	COLOR	
Pertussis	1.08	1.60	256	1.77	1.97	294	2.46	2.74	2.67	288	2.69
Plague	000	0.01	000	0.01	000	0.01	0.01	000	000	000	000
Poliomvalitis paralytic	000	000	000	000	000	0.03	0.02	0.01	000	000	000
Poitteconie	000	000	000	000	0.03	000	000	000	100	000	100
Ofever	-	-	-	-	-	-	-	4	-	100	100
Rabies himan	000	000	000	000	000	100	100	000	000	000	000
Phaumatic favor acute	010	900	0.08	000	-	-		-	-	-	-
Rocky Mountain spotted favor	0.25	0.20	0.18	0.18	0.23	030	0.16	0.14	0.21	0.18	0.25
Ribala	0.56	0.08	200	000	000	010	200	0.13	010	000	001
Rubella, congenital syndrome	0.02	000	0000	0000	000	000	000	000	0000	000	000
Salmonellosis, excluding typhoid fever	19.10	16.04	16.15	16.64	17.66	17.15	15.66	16.17	14.89	14.51	14.39
Shidellosis	934	9.38	12.48	11.44	12.32	9.80	8.64	8.74	6.43	8.41	7.19
Streptococcal disease, invasive, group A	-	-	-	-	-					1.45	1.60
Streptococcal, toxic-shock syndrome	•	•	•	-	•					0.04	0.04
Streptococcus, pneumoniae,											
invasive, drug-resistant		•		-	-		•		•	2.77	2.11
Streptococcus, pneumoniae,											
invasive, <5 vrs				-							1.03
Syphilis, primary and secondary	17.26	13.70	10.40	8.10	6.30	4.29	3.19	2.61	2.50	2.19	2.17
Total, all stades	51.69	45.30	39.70	32.00	28.20	19.97	17.39	14.19	13.07	11.58	11.45
etanus	0 00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
Toxic-shock syndrome	0.11	0.10	0.08	0.10	0.07	90'0	900	900	0.06	90.0	90.0
Trichinosis	0.02	0.02	0.01	0.01	10.0	0.01	0.01	0.01	0000	0.01	0.01
Tuberculosis	10.42	10.46	9.82	9.36	8.70	8.04	7.42	6.79	6.43	6.01	5.98
Tularemia	90'0	90'0	90.0	0.04						90.0	900
l'yphoid fever	0.20	0.16	0.17	0.17	0.14	0.15	0.14	0.14	0.13	0.14	0.13
Varicella (chickenpox)*	135.82	176.54	118.54	136.76	118.11	44.13	93.55	70.28	44.56	26.18	19.51
rellowfever	1	1	1	1	-	000	1	1	0000	1	1

Yellow fever

Acquired Immunodeficiency syndrome.
No longer nationally nortifiable.
Nortinger nationally nortifiable.
Nortinger refers to genital infections caused by C. trachomatis.
Nortingerially nortifiable.
Nortingerially nortifiable may 1990.

Note: Rates <0.01 after rounding are listed as 0.00. Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and case definitions.

TABLE 8. Reported cases of notifiable diseases — United States, 1994-2001

icense	1994	1995	1996	1997	1966	1999	3000	2001
	40.000	20.00	900 000	007 000	10000	200 000	Out OF	20000
IDS	18,279	1,54/	000/000	284/85	46,521	45,104	40,756	41,866
mebiasis	2,983							
Anthrax	I	1	1	1	1	1	-	R
Aseptic meningitis	8.932							
Sotulism, total (including wound and unsp.)	143	26	119	132	116	154	138	35
Foodborne	98	24	193	31	2	23	23	8
Infant	98	35	88	202	98	36	88	66
Brucellosis	119	88	112	88	R	88	87	136
Chancroid	773	909	386	243	189	143	78	38
hlamydia	*	477,638	498,884	526,671	804,420	656.721	702,083	783,242
Cholera	8	83	4	9	17	9	2	3
Coccidioidomycosis	=	1,212	1,696	1,749	2,275	2,827	2,867	3,922
Cryptosporidiosis	2	2,970	2,827	2,586	3,793	2,361	3,128	3,785
Cyclosporiasis	*	AN	AN	86	28	8	98	147
Siphtheria	2	1	2	4	-	-	-	2
Ehrlichiosis, human granulocytic		**		**	0.0	216	361	261
human monocytic	**	*	**		0.0	116	200	142
Encephalitis, primary	717	-			4		-	-
Postinfectious	143							
cephalitis, California serogroup viral	*	11	123	129	97	20	114	128
Eastern equine	*	-	ıs	14	4	MD.	en	6
St. Louis	*	67	2	13	24	4	2	2
Western equine	**	1	1	1	1	-	1	1
Escherichia coli, enterohemorrhagic (EHEC) 0157:H7	1,420	2,139	2,741	2,555	3,161	4,513	4,528	3,287
EMEC, serogroup non-O157	**	*	**	**	**	**	**	171
EHEC, not serogrouped	**	**	2	**	2	9.4	**	8
Sonorrhea	418,068	392,848	325,883	324,907	355,642	300,076	358,995	361,705
Granuloma inguinale	es	-	-					
Asemophilus influenzae, invasive	1,174	1,180	1,170	1,162	1,194	1,309	1,398	1,597
fansen disease (leprosy)	136	144	112	122	108	108	91	P
fantavirus pulmonary syndrome	**	AZ	AN	AN	AN A	31	41	00
femolytic uremic syndrome, postdiarrheal	**	72	16	93	119	180	249	202
Hepatitis A, acute	26,796	31,582	31,032	30,021	23,229	17,047	13,397	10,609
patitis B, acute	12,517	10,805	10,637	10,416	10,258	7,694	8,036	7,843
lepatitis, C/non-A, non-B"	4,470	4,576	3,716	3,816	3,518	3,111	3,197	3,976
lepatitis, unspecified	444		1		-	-		
egionellosis	1,615	1,241	1,198	1,163	1,355	1,108	1,127	1,168
aptospirosis	<b>M</b> :	-		- :	- 1	- 1	-	-
steriosis							00/	613
yme disease	13,043	11,700	16,455	12,801	16,801	16,273	17,730	17,029
vmphogranuloma venereum	236							

Disease	1994	1986	1996	1997	1998	1999	2000	2001
Malaria	1229	1,419	1,800	2,001	1.611	1,666	1,560	1,544
Measles	963	309	909	138	100	100	98	116
Meningococcal disease	2,886	3,243	3,437	3,308	2,725	2,501	2,256	2,333
Mumps	1.537	906	192	683	999	387	338	300
ertussis	4,617	5,137	7,796	6,564	7,405	7,288	7,867	7,580
lague	4	o	20	4	6	0	9	2
Poliomyelitis, paralytice	00	7	7	9	en	2	1	1
Sittacosis	88	89	4	33	64	16	17	163
Jever	:	*	:	:	**	**	21	88
Rabies, animal	8,147	7,811	6,982	8,105	7,259	6,730	6,934	7,150
Rabies, human	9	S	m	2	-	1	4	-
Sheumatic fever, acute	112	-				-		
Rocky Mountain spotted fever	466	280	831	409	398	626	495	989
tubella	227	128	238	181	38	267	176	R
lubella, congenital syndrome	7	9	4	ıo	7	60	0	e
Salmonellosis, excluding typhoid fever	43,323	46,970	45,471	41,901	43,694	40,596	39,574	40,495
Shigellosis	29,769	32,080	25,978	23,117	23,626	17,521	22,922	20,221
Streptococcal disease, invasive, group A	*	613	1,445	1,973	2,260	2,867	3,144	3,750
Streptococcus pneumoniae, invasive, drug-resistant	**	306	1,514	1,799	2,823	4,625	4,533	2,896
Streptococcus pneumoniae, invasive, <5 vears	**	2	*	*	**	*	*	498
Streptococcal toxic-shock syndrome	**	10	19	33	88	99	88	11
Syphilis, primary and secondary	20,627	16,500	11,387	8,550	6,993	6,667	5,979	6,103
Total, all stages	81,696	68,953	52,976	46,540	37,977	35,628	31,575	32,221
etanus	51	41	89	8	41	9	19	33
oxic-shock syndrome	192	191	145	157	138	113	136	127
richinosis	33	R	11	13	19	12	16	8
uberculosis	24,361	22,860	21,337	19,851	18,361	17,531	16,377	15,989
ularemia	88	-	-	-	-	-	142	128
yphoid fever	441	360	386	988	375	346	377	88
aricella (chickenpox)***	151,219	120,624	83,511	98,727	82,455	46,016	27,382	22,536
ellowfever	***	MI.		1	1	1	1	1

Total number of acquired immunodeficiency syndrome (AIDS) cases includes all cases reported to the Division of HIV/AIDS Prevention—Surveillance, and Epidemiology, National Center for HIV, STD, and TB/revention (NCHSTP) through December 31, 2001.

No longer nationally nofitible.

Cases were updated through the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of May 3, 2002.

For liamydia refers to gantal infections caused by C. trachomatics.

Not previously nationally notifiable.

Anti-HCV antibody test available May 1990.

Numbers might not reflect changes based on retrospective case evaluations or late reports (See MMWR 1986;38:180-2). Cases were updated through the Division of Tuberchosts signification, PUCAFT pas of March 28, 2002. Every date set were to report these cases to CDC. The state for off the nationally notifiable disease list in 1991. Many states continue to report these cases to CDC. The last indigenous case of yellow fever was reported in 1911; the last imported case was reported in 1999.

Note: Rates <0.01 after rounding are listed as 0.00. Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and case definitions.

TABLE 9. Reported cases of notifiable diseases\* — United States, 1986-1993

Visease	1986	1967	1966	1960	1980	1991	1982	1983
IDS:	12,932	21,070	31.001	33.722	41,595	43,672	45.472	103.691
Amebiasis	3532	3.123	2.880	3217	3328	2,989	2942	2970
nthrax	1	-	2	1	1	1		1
septic meningitis	11.374	11,487	7.234	10.274	11,852	14.526	12 223	12.848
Botulism, total (including wound and unsp.)	109	88	35	98	36	114	26	65
Foodborne	X	17	8	23	23	22	21	22
Infant	97	8	8	9	188	180	8	18
rucellosis	106	129	88	88	88	104	106	120
Chancroid	3,756	4,998	5,001	4,682	4,212	3,476	1,896	1,399
Cholera	R	9	80	1	9	183	103	20
iphtheria	1	3	2	6	4	20	4	-
Encephalitis, primary <sup>1</sup>	1,302	1,418	882	196	1,341	1,021	774	919
Postinfections	124	121	121	88	106	88	129	170
Sonorrhea	899'006	780,905	719,536	733,151	690,169	620,478	501,409	439,673
ranuloma inguinale	61	22	11	7	65	83	9	61
aemophilus influenzae, invasive disease							1,412	1,419
ansen disease (leprosy)	270	238	184	163	198	154	172	187
spatitis A, acute	23,430	25,280	28,507	35,821	31,441	24,378	23,112	24,238
spatitis B, acute	26,107	25,916	23,177	23,419	21,102	18,003	16,126	13,361
spatitis, C/non-A. non-B	3,634	2,999	2.619	2.529	2,553	3.582	6,010	4.786
Hepatitis, unspecified	3,940	3,102	2,470	2306	1,671	1,280	884	627
gionellosis	380	1,038	1,085	1,190	1,370	1,317	1,339	1,280
ptospirosis	41	2	36	8	7	38	36	5
medisease							9,896	8.257
mphogranuloma venereum	989	303	186	189	112	471	305	382
alaria	1,123	944	1,099	1277	1,292	1,278	1,087	1,411
Bastes	6,282	3,655	3,396	18,193	27,786	9,643	2237	312
eningococcal disease	2,594	2,930	2,964	2727	2,451	2,130	2.134	2.637
nmps	7,790	12,848	4,866	5,712	5,292	4,264	2,572	1,692
urine typhus fever	69	40	25	41	98	43	98	10
SISSITUA	4.195	2.823	3.450	4.157	4.570	2,719	4.083	6.586

TABLE 9 (Continued Reported cases of notifiable diseases — United States, 1986-1993

ABLE 3. (Continued) hepotited cases of inclinable diseases — Officed States, 1300-1333	alcenia ne	CISCOSCO	- Cilited State	100cl 's	200				
Disease	1986	1967	1988	1989	1980	1991	1982	1983	
Plague	10	12	15	4	2	11	13	10	1
Poliomvelitis, paralytic	10	o	6	11	90	10	9	4	
Paittacosis	224	88	114	116	113	8	88	8	
Rabies, animal	5,504	4,658	4.851	4.724	4.826	6.910	8.589	9.377	
Rabies, human	1	-	1	-	-	3	-	6	
Rheumatic fever, acute	147	141	158	144	108	127	16	112	
Rocky Mountain spotted fever	760	904	609	623	651	628	505	456	1
Rubella	198	306	228	396	1,125	1,401	160	192	
Rubella, congenital syndrome	14	in the	40	8	11	47	11	S	
	49,984	50,916	48,948	47.812	48.603	48.154	40,912	41,641	
Shigellosis	17,138	23,860	30,617	25,010	27.077	23,548	23,931	32,198	
Syphilis, primary and secondary	27,883	35.147	40.117	44.540	50,223	42,935	33.973	26,498	
Total, all stages	68,215	86,545	103,437	110,797	134,255	128,569	112,581	101,259	
Tetanus	99	89	23	S	64	23	18	89	1
Toxic-shock syndrome	412	372	380	400	322	280	244	212	
Trichinosis	8	8	45	30	129	8	41	16	
Tuberculosis	22,768	22,517	22,436	23,495	25,701	26,283	26,673	26,313	
Tularemia	170	214	201	152	152	193	150	132	
Typhoid fever	362	400	436	460	562	501	414	440	
Varicella (chickenpox)	183.243	213.198	192.857	185.441	173.099	147.078	158.364	134.722	

\* No cases of yellow fever were reported during 1986-1983.
Acquired immunosediciency syndrome.
Acquired immunosediciency syndrome.
Beginning in 1984, data were recorded by date of record to state health departments. Before 1984, data were recorded by onset date.

Not previously notifiable nationally.

Note: Rates <0.01 after rounding are listed as 0.00. Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the date, and case definitions.

f notifiable diseases* — United States, 1978–1985	ARREST ARREST ARREST ARREST
of notifiab	
Reported cases	
TABLE 10. F	-

	90.30	4030	- ACCOUNT	1001		A CONTRACTOR	The state of the s	
96096	1970	1973	1300	100	200	2002	1304	1360
)Si	-			,			4,445	8,249
Amebiasis	3,937	4,107	5,271	6,632	7,304	6,658	5,252	4,433
Anthrax	9	1		1	1	1	-	1
Asaptic maningitis	6,573	8,754	8,028	9,547	9,680	12,696	8,326	10,619
Botulism, total (including wound and unsp.)	200	18	88 -	100 100	33	133	123	122
Poodborne								9 8
Titlain.	170	366	505	304	17.0	2000	100	54
Theoreticals and the second	621	CLS	3 9	080	1 200	200	131	2000
Polece	12		900	10	7000	046/	000	2,000
Jinhtheria	1 50	9	0 00	in all	0	- 10		\$ 00
ncephalitis, primary	1361	1504	1362	1.492	1.464	1781	1267	1378
*ostinfectious**	282	88	9	43	88	35	108	161
Sonorrhea	1,013,436	1,004,058	1,004,029	990,864	980,633	900.435	878.556	911,419
Sranulomainguinale	72	92	51	99	17	24	30	44
lansen disease (leprosv)	168	186	223	256	250	259	280	361
epatitis A, acute	29,500	30,407	29,087	25,802	23,403	21.532	22.040	23210
epatitis B, acute	15,016	15,452	19,015	21,152	22,177	24,318	26,115	26,611
epatitis C; non-A, non-B							3,871	4.184
epatitis, unspecified	8,776	10,534	11,894	10,975	8,564	7,149	5,531	5,517
egionellosis	761	563	475	408	654	862	750	830
eptospirosis	110	28	98	8	100	19	40	25
vmohogranuloma venereum	284	350	199	263	226	306	170	326
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	751	BOA	0000	1 200	3 056	013	2002	1040
analac	26.871	12 507	12 506	2 124	1714	1 407	0000	0000
Admingnococcal disease	2,505	2724	2 RAD	3,124	3056	35.4.C	2746	2,000
Mumbs	16.817	14.225	8,576	4941	6,270	3.355	3021	2000
Murine typhus fever	46	99	80	61	28	8	23	37
ertussis	2,063	1,623	1,730	1,248	1,895	2,463	2,276	3,589
Jague	12	13	18	13	19	90	31	17
omyelitis, total	00 (	8	00 (	2	12	13	0	00
Paralytic	0	77	S)	01.	12	13	50	00
sittacosis	140	137	124	136	152	142	172	119
abies, animal	3,254	5,119	6,421	7,118	6,212	5,878	5,567	5,565
labies, human	4	4	1	2	1	2	es	-
sheumatic fever, acute	198	629	432	364	137	88	117	8
Nocky Mcuntain spotted fever	1,063	0/0/1	1,163	1,192	9/6	1,126		714
Pubella congenies and condenses	18,209	1,730	3,954	2,077	2,325	28	26.	630
Salmonallosis avoluding troboid forces	20 410	20 120	317.00	000 00	20000	44 750	40 000	000 000
Shigellosis	19,511	20,135	19,041	19,859	18,129	19,719	17,371	17,067
Syphilis, primary and secondary	21,656	24,874	27,204	31,266	33,613	32,698	28,607	27,131
Total, all stages	64,875	67,049	68,832	72,799	75,579	74,637	888'69	67,563
etanus	98	50	8	2.	88.	6.	74	83
oxic-shock syndrome	- 5	- [		- 60		. 1	482	284
richinosis	/9 202	12/	131	902	115	9	B	19
UDerculosis	78,92	27,669	27,749	27,373	25,520	23,846	22,256	22.201
Unaremia	303	130	534	200	2/2	310	200	100
	200	100 001	200 004	200 000	CCA 721	122 462	224 000	204 04.5

Nocasse of yellow yeter were reported during 1978-1986.
 Acquired immunodeficiency syndroms.
 Not previously notifiable nationally.
 Lutaneous diptheria was no longer notifiable nationally after 1979.
 Lutaneous diptheria was no longer notifiable nationally after 1979.
 Notasse of pasityric poliomyellis caused by wild virtue have been reported in the United States since 1979.

Note: Rates <0.01 after rounding are listed as 0.00. Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and case definitions.

TABLE 11 Bonneted reces of notificable discovers - United States 1970, 1977

96850	1970	1971	1972	1973	1974	1975	1976	1977
Amebiasis	2,888	2,752	2,199	2,235	2,743	2,775	2,906	3,044
Anthrax	2	2	2	2	2	2	2	1
Aseptic meningitis	6,480	5,176	4.634	4,846	3.197	4,475	3,510	4,789
Botulism, total (includes wound and unspecified)	12	12	2	34	88	8	18	129
Brucellosis	213	282	196	202	240	310	296	232
Chancroid	1,416	1,320	1,414	1,165	945	700	929	465
olera	-	1	1	-	1	1	ļ	8
Diphtheria	435	215	152	228	272	307	128	88
encephalitis, primary	1,580	1,524	1,059	1,613	1,164	4,064	1,651	1,414
Postinfectious	370	439	243	354	218	233	175	119
Sonorrhea	800,072	670,268	767.215	842.621	906.121	999,937	1,001,994	1.002.219
Sranuloma inquinale	124	88	18	89	47	08	71	K
Hansen disease (leprosv)	129	131	130	146	118	162	145	151
Hepatitis A (infectious)	56,797	909'69	54.074	50,749	40,358	35,855	33,288	31,153
depatitis B (serum)	8,310	9,556	9,402	8,451	10,631	13,121	14,973	16,831
patitis, unapecified							7,488	8,639
egionellosis	- 1	- 1	- 1		-	_ 1	236	369
eptospirosis	47	8	41	20	8,351	8	2	1
ymphogranuloma venereum Aalaria	3.051	2.375	742	237	283	328	470	24.7
Aeasles	47.351	75.290	32.275	26.690	22.094	24.374	41.126	57.345
Maningococcal disease	2505	2,262	1323	1378	1346	1.478	1,605	1828
Mumps	104,953	124,939	74,215	69,612	59,128	59,647	38,492	21,436
Murine typhus fever	27	23	18	32	98	41	689	20
ertussis	4,249	3,036	3,287	1,759	2,402	1,738	1,010	2,177
lague	5 5	22	- 2	20	90 00	89	92 9	20 0
Paralytic	2 E	71	7 R	00 1-	1	13 53	26	n or
sittacosis	16	a	50	33	164	99	8	2
	2000	4000	9 200 8	3000	2 15 4	2000	0200	2 320
Rabies human	3,449	4,310	4,309	3,040	161,8	7,027	3,0/3	3,130
Sheumatic favor acuto	2227	2703	2614	2 5.60	2.421	D 88.4	1 965	1738
Rocky Mountain spotted fever	380	430	523	PASS .	A.A.	844	220	1.153
Rubella	56,552	45,086	25.507	27.804	11,917	16,652	12,491	20,395
Rubella, congenital syndrome	77	88	42	88	8	30	30	23
Salmonellosis, excluding typhoid fever	22,096	21,928	22,151	23,818	21,980	22,612	22,937	27,850
Shigellosis	13,845	16,143	20,207	22,642	22,600	16,584	13,140	16,052
Streptococcal sore throat and scarlet fever	433,405		*	,	*		,	
Syphilis, primary and secondary	21,982	23,783	24,429	24,825	25,385	25,561	23,731	20,399
otal, all stages	91,382	95,997	91,149	87,469	85,77	80,356	71,761	64,621
etanus	148	116	128	101	101	102	2	18
TCHINOSIS	201 20	26 267	80000	201 000	021.00	767	115	20 143
uberculosis	37,137	12,00	32,882	30,998	30,122	33,369	3,18	30,140
vohoid fever	346	407	3000	Cesu	CEV		419	300
	3	7	164 114	100 001	141 405	45.4 740	000000	200

No cases of yellow fever were reported during 1970-1977.
 No forewousy rationally notifiable.
 No longer rationally notifiable with earlier years because of changes in reporting criteria that became effective in 1975.
 Case data after 1974 are not comparable with earlier years because of changes in reporting criteria that became effective in 1975.

Note: Rates <0.01 after rounding are listed as 0.00. Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and case definitions.

TABLE 12. Deaths from selected notifiable diseases — United States, 1996-1999

					200		/661		200	
	Passa of death onder	th conden	Estimated	No. o	No. of deaths	No. o	No. of deaths	No. o	No. of deaths	Number
Cause of death	ICD-10*	ICD-91	ratio	ICD-107	ICD-9.	ICD-10	ICD-9	ICD-10	ICD-9	ICD-30
CHARGO CO COCCO	2	200	000	200	2	01.001	0.001	200	0.00	200
AIDS.	820-824 933	042-044	1.0624	33,080	31,130	17.877	916,91	14,532	13,426	14,802
Anthrax	AZZ	770	2 2		1,		1.		1	1
Botulism	AUS.1	000	8 1				7		P	6
Brucellosis	AZ3	520			1		-			1
Chancroid	AST	0.660		8	1	8	1		1	1
Chlamydia trachomatis	A56	088.8	s	2	1	20	1	I	1	1
Cholera	ADD	100	2	8	0	10	1	99		1
Cryptoenoridiosis	ANT 2	1368	2		1	N	P	20	·	-
	A07 D	0.000	2	2		***		8	)	
Colosionasis	D./OH	0000	3	2	1	10		3		1
Ciprimeria	2000	2000	1 2		!		1			
Enrichiosis, numan granulocytic	A79.00	083.8		2 2	1		!		1	-
Ehrlichiosis, human monocytic	-	083.8			Name .		1		1	-
Encephalitis, California serogroup vira		082.5	2 :				_	2	1	-
Eastern equine	A83.2	062.2	2	8	-	**	2	**	-	1
St. Louis	A83.3	062.3	2	5	1		_	2	[	2
Western equine	A83.1	062.1	2	2	1	9	1	M	-	1
Escherichia coli	A04.0-A04.4	006.8	2	2	1		1	2	1	7
Gonorrhea	A54	980	20	2	4	2	60	*	4	6
Haemophilus influenzae	A49.2	041.5	2	×	7	12	7	S	11	9
Hansen disease	A30	080	2	2	1	2	2	W	. ]	2
Henatitis A	815	070.0.070.1	0.9328	107	115	115	123	36	105	134
	RIG RIAD RIR 1	070 2 070 3	0.6879	2000	1031	673	070	ABD	0000	830
Manattia	R17 1 R18 2	0704-0708	0.7114	9 Kas	2230	1840	2 5.96	2 289	2218	2 762
I acionallosia	A4R 1 A4R 2	AR2 R	0.6273	8	168	110	308	The same	178	36
Lymadianasa	A600 2	104.8	N N	32	8 1	2 2	200	(2	2	200
Majaria	AND-BEA	094	s	2	A	3	7	2	46	
Measies	808	086	N	-	-	2		2	2 1	
Meningococcal disease	A39	000	0.9961	286	290	306	306	231	234	227
Mumps	826	000	2	10		z.		10	-	
Pertussis	A37	033	2	s	4	\$	9	2	- 10	7
Plague	A20	020	18	2	2	2	1	2	1	-
Poliomyelitis	A80	046	2	s	1	10	1	2	1	1
Paittacosis	A70	073	2	2	-	8	I	8	1	1
Ofever	A78	083.0	2	2	-	3	1	2	1	1
Rabies, human	A82	001	<b>s</b> :		en		4	\$	-	1
Rubella	908	990	2	2	1	2	1	2	1	1
Rubella, congenital syndrome	P36.0	771.0	3	2	4		4	2	48	80
Salmonellosis	A02	003	0.8929	28	38	28	21	8	37	8
Shigellosis	A03	900	2	2	മ	3	un	2	ഗ	9
Rocky Mountain spotted fever	A77.0	082.0	2		9	2	12	2	8	20
Syphilis, all stages	A50-A53	080-081	0.7887	38	R	49	8	R	18	8
Tetanus	ASS	030	s :	8 1	-	\$ 1	4	s :	7	7
Trichinosis	875	124			1		13		1	1
Inberculosis	A16-A19	910-010	0.8821	1,080	1,202	630,	1,166	- Se -	1,112	930
I Vonoid rever	A01.0	002.0	0 40 40		- 00	. 8	1 8		1 3	. 5
Varicella (chickenpox)*	1000	38	0.7848	3.	0	P3	2	80	81	8-
100001001001001001001001001001001001001	COL	8			-					-

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 Annumber of deaths modified on ICD-9 codes, Unmodified with the comparability, ratio for ICD-10 code (ICD-9 code).
 Annumber of death paged on ICD-9 codes, Unmodified with the comparability ratio for ICD-10 code.
 Comparability ratio not calculated because it does not meet standards of reliability to presision.
 Comparability ratio not calculated because it does not meet standards of reliability to repeate on the states continue to report these cases to CDC.

Second we listing Center for Health Statistics. National Vital Statistics System, 1996–1999, Deaths are classified according to the ICD-9 (1996-1998) and ICD-10 (1999). Data for 2000 and 2001 currently Second and 2001 currently assemble.

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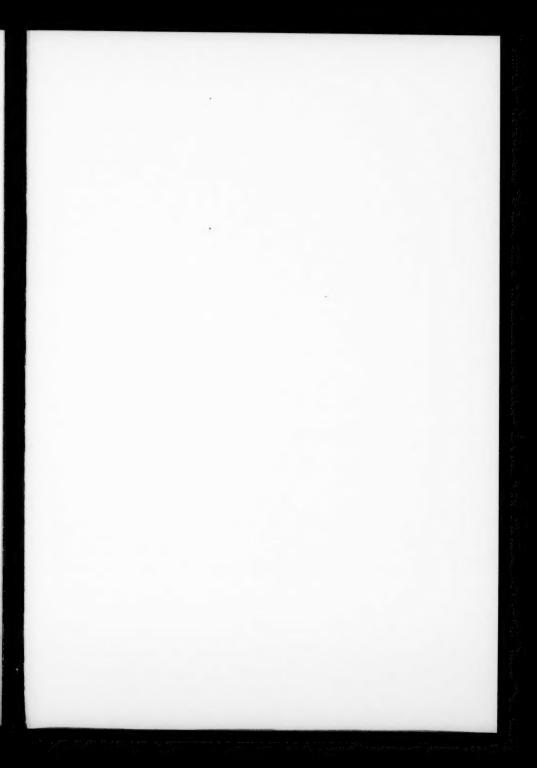
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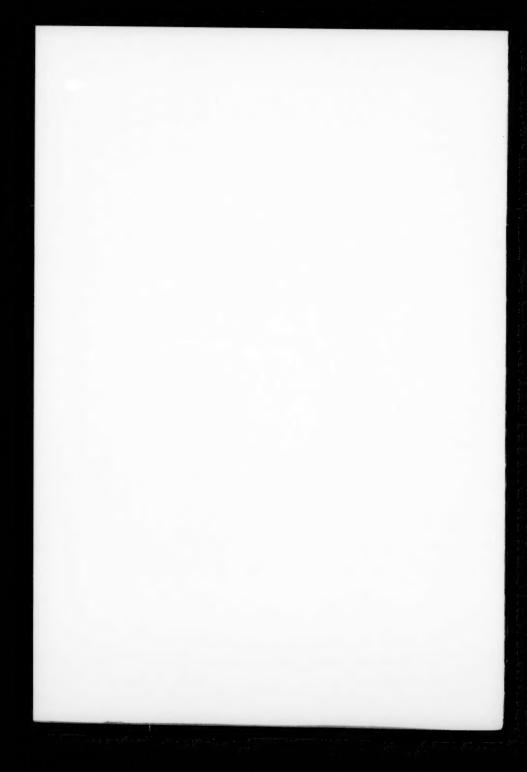
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# State and Territorial Epidemiologists and Laboratory Directors

State and Territorial Epidemiologists and Laboratory Directors are acknowledged for their contributions to *CDC Surveillance Summaries*. The epidemiologists and laboratory directors listed below were in the positions shown as of April 2003.

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